

Plot No. A-67&68, PIPDIC Electronic Park, Thirubuvanai, Puducherry-605107 Tel: 0413 - 2641099 2641199 3535656 Fax: 0413 - 2641666 info@safetab.net

www.safetab.net

Certificate of Analysis

(As per Drugs and Cosmetics Act. 1940 and the rules made there under)

Name of the product	: LITACOLD FLU	Date of receipt	: 31/03/2020
Batch No	: GD200301	Quantity sampled	: 100 Tablets
Batch size	: 10.0 Lac Tablets	Date of Commencement	: 07/04/2020
Date of Mfg	: MAR' 2020	Date of Completion	: 13/05/2020
Date of Exp	: FEB' 2023	A.R. Number	: SFP/C/00345/2020
Condition	: Finished product	Date of Report	: 13/05/2020

S.No:	Test	Specification	Results	
1	Description	Light yellow coloured, flat, round beveled edged uncoated tablet with break line on one side and plain on another side.	Light yellow coloured, flat, round beveled edged uncoated tablet with break line on one side and plain on another side.	
2	Identification a) Chlorphenamine Maleate (By HPLC)	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Chlorphenamine Maleate in the standard preparation as obtained in assay.	Complies	
	b) Phenylephrine Hydrochloride (By HPLC)	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Phenylephrine Hydrochloride in the standard preparation as obtained in assay.	Complies	
	c) Caffeine (By HPLC)	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Caffeine in the standard preparation as obtained in assay.	Complies	
	d) Paracetamol (By HPLC)	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Paracetamol in the standard preparation as obtained in assay.	Complies	
3	Average weight of tablet	635.0 mg ± 3 % (615.9 mg to 654.0 mg)	635.7mg	
4	Uniformity of Weight	Not more than 2 of the individual weights deviate from the average weight by more than ±5% and none deviate by more than ±10.0%.	(-) 0.87% (+) 1.06%	
5	Diameter	12.70±0.20mm (12.50 - 12.90mm)	12.71mm	
6	Thickness	4.30mm±0.2mm (4.10mm to 4.50mm)	4.31mm	
7	Hardness	100 N - 250 N	214.84 N	
8	Disintegration Time	Not more than 15 minutes	05 Minutes 49 Seconds	
9	Friability	Not more than 1.0%	0.22%	
10	Dissolution: a) Chlorphenamine Maleate BP	Not less than 80% of the stated amount of Chlorphenamine Maleate dissolved in 45 Minutes.	Min: 87.9%; Max: 95.0%; Avg: 92.6%	
	b) Phenylephrine Hydrochloride BP	Not less than 80% of the stated amount of Phenylephrine Hydrochloride dissolved in 45 Minutes.	Min: 95.1%; Max: 97.0%; Avg: 96.0%	
	c) Caffeine BP	Not less than 80% of the stated amount of Caffeine Anhydrous dissolved in 45 Minutes.	Min: 98.6%; Max: 110.1%; Avg: 101.1%	
	d) Paracetamol BP	Not less than 80% of the stated amount of Paracetamol dissolved in 45 Minutes.	Min: 97.4%; Max: 109.2%; Avg: 100.3%	

In this opinion of the undersigned the sample refered to above is of standard Quality / is not of standard Quality as defined in the Act and the Rules made thereunder for the reason given below:

Observation: The Product complies as per Inhouse Specification with respect to above test.

Prepared by	Checked by	Approved by
13/05/2020	Dung 3/05/2020	The alexander
Executive-QC	Assistant Manager-QC	AGM-QC



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Certificate of Analysis

(As per Drugs and Cosmetics Act. 1940 and the rules made there under)

-			
Name of the product	: LITACOLD FLU	Date of receipt	: 31/03/2020
Batch No	: GD200301	Quantity sampled	: 100 Tablets
Batch size	: 10.0 Lac Tablets	Date of Commencement	: 07/04/2020
Date of Mfg	: MAR' 2020	Date of Completion	: 13/05/2020
Date of Exp	: FEB' 2023	A.R. Number	: SFP/C/00345/2020
Condition	: Finished product	Date of Report	: 13/05/2020

S.No:	Test		Specification	Results
11	la) For Chlorobenamine Maleate BP		Not less than 85.0% and not more than 115.0% of the average value.	Min: 96.0%; Max: 100.3%; Avg: 97.2%
	b) For Phenylephrine Hydrochlori	de BP	Not less than 85.0% and not more than 115.0% of the average value.	Min: 94.1%; Max: 99.2%; Avg: 95.2%
12	Related substances: i) Single maximum unknown imp ii) Total impurities	ourity	Not more than 0.20% Not more than 0.50%	0.02% 0.03%
13	Assay: Each Uncoated tablet	contains		
	Chlorphenamine Maleate BP	2mg/	90.0% to 110.0% of the labeled claim I.e. 1.8mg to 2.2mg	1.90mg (95.2%)
	Phenylephrine Hydrochloride BP	5mg	90.0% to 110.0% of the labeled claim I.e. 4.5mg to 5.5mg	4.87mg (97.5%)
	Caffeine (anhydrous) BP	30mg	90.0% to 110.0% of the labeled claim I.e. 27.0mg to 33.0mg	29.60mg (98.7%)
	Paracetamol BP	500mg	90.0% to 110.0% of the labeled claim I.e. 450.0mg to 550.0mg	491.09mg (98.2%)
14	Microbiological parameters:			7
	i) Total Viable aerobic count		2276	
	a) Total aerobic microbial count b) Total yeast and mould count ii) Pseudomonas aeruginosa		Not more than 1000 cfu/g	80cfu/g
			Not more than 100 cfu/g	Found absent
			Should be absent/g	Found absent
	iii) Salmonella Species		Should be absent/10g	Found absent
	iv) Esherichia Coli		Should be absent/g	Found absent
	v) Staphylococcus aureus		Should be absent/g	Found absent

In this opinion of the undersigned the sample refered to above is of standard Quality / is not of standard Quality as defined in the Act and the Rules made thereunder for the reason given below:

Observation: The Product complies as per Inhouse Specification with respect to above test.

Note: For Microbiological Parameters test refer Ideal Lab Report No: AR/20/05/05/025

Prepared by	Checked by	Approved by
13/05/2020	1 July 13/0x 12020	17 Janos 120
Executive-QC	Assistant Manager-QC	AGM-QC



Safetab Life Science Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Finished Product

Specification No	ROA No	Revision No.	Effective date	Page No:
FGSTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	1 of 4

Batch No.	670200301	Sample Quantity	13 Strips
Batch Size	IDLAC	Sampled By /Date	Lamkumar 105/05/2020
Mfg. Date	Mar-2020	Test started on	05/05/2020
Exp. Date	Feb-2023	Test completed on	13/05/2020
Stage	Finished Product	A.R.No	FGE 100306/2020

	PRODUCT TEST REPORT					
S.NO	TEST	RESULT	SPECIFICATION			
1.0	Description	Light yellow coloured; flat, round bevelod edged worked tablet, with brook line on one side had plain	Light yellow coloured, flat, round beveled edged uncoated tablet with break line on one side and plain on another side.			
2.0	*Identification					
	a) Chlorphenamine Maleate (By HPLC)	complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Chlorphenamine Maleate in the standard preparation as obtained in assay.			
	b) Phenylephrine Hydrochloride (By HPLC)	complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Phenylephrine Hydrochloride in the standard preparation as obtained in assay.			
	c) Caffeine (By HPLC) (anhydrous)	complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Caffeine in the standard preparation as obtained in assay.			
Remark	Remarks: The product Complies / Doesn't comply as per Specification.					
	ANALYSED BY	CHECKED BY	APPROVED BY			
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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Finished Product

Specification No	ROA No	Revision No.	Effective date	Page No:
FGSTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	2 of 4

		PRODUCT TEST REPORT			
5.NO	TEST	RESULT	SPECIFICATION		
	d) Paracetamol (By HPLC)	complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Paracetamol in the standard preparation as obtained in assay.		
3.0	Average weight of tablet	638.1mg	635.0 mg ± 3 % (615.9 mg to 654.0 mg)		
4.0	Uniformity of weight	Min (-): 1 ~ 62 %, Max(+): 1 ~ 3 4 %,	Not more than 2 of the individual weights deviate from the average weight by more than $\pm 5\%$ and none deviate by more than $\pm 10.0\%$.		
5.0	*Diameter	12.71 mm	12.70 ± 0.20mm (12.50 - 12.90)		
6.0	#*Thickness	4.31 mm	4.30±0.2mm (4.10 - 4.50mm)		
7.0	#*Hardness	214, BUN	100 N - 250 N		
8.0	Disintegration time	08 Mins 58 Sekords	Not more than 15 minutes		
9.0	Friability	. 0-22%	Not more than 1.0%		
10.0	Dissolution Chlorphenamine Maleate BP	Min: 87 97 ; Max: 95-07, Avg: 012-67,	Not less than 80% of the stated amount of Chlorphenamine Maleate dissolved in 45 Minutes.		
Remarks: The product Complies / Doesn't comply as per Specification.					
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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Finished Product

Specification No	ROA No	Revision No.	Effective date	Page No:
FGSTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	3 of 4

		PRODUCT TEST REPORT	
s.NO	TEST	RESULT	SPECIFICATION
	b) Phenylephrine Hydrochloride BP	Min: 95-14; Max: 97.04.	Not less than 80% of the stated amount of Phenylephrine Hydrochloride dissolved in 45 Minutes.
	c) Caffeine BP	Min: 98'67. ; Max: 110'17, Avg: 101.17,	Not less than 80% of the stated amount of Caffeine Anhydrous dissolved in 45 Minutes.
	d) Paracetamol BP	Min: 97 '44, ; Max: 109.24; Avg: 100' 27,	Not less than 80% of the stated amount of Paracetamol dissolved in 45 Minutes.
11.0	*Uniformity of content		
	a) Chlorphenamine Maleate BP	Min: 96 0%; Max: 100 3%, Avg: 97.2%	Not less than 85.0% and not more than 115.0% of the average value.
	b) Phenylephrine Hydrochloride BP	Min: 94'17.; Max: 39'27. Avg: 95-27.	Not less than 85.0% and not more than 115.0% of the average value.
12.0	*Related substances	y 8	
	i) Single maximum unknown impurity	0.02%	Not more than 0.20%
	ii) Total impurities	0-03%	Not more than 0.50%
13.0	*Assay: Each Uncoated tablet		
	Chlorphenamine Maleate BP 2mg	1.90mg (915.24)	90.0% to 110.0% of the labeled claim I.e. 1.8mg to 2.2mg
	Phenylephrine Hydrochloride BP 5mg	4-87mg(92.54)	90.0% to 110.0% of the labeled claim I.e. 4.5mg to 5.5mg
Remar	ks: The product Complies / Doesn't co	ompty as per Specific	cation.
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Sign¿ Date:	13 05 2020 Dat	7 0N000 1 1 2 2)	Date: 15/0 120

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Finished Product

Specification No	ROA No	Revision No.	Effective date	Page No:
FGSTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	4 of 4

			PRODUCT TEST REPORT		
s.NO	TEST		RESULT	SPECIFICATION	
	Caffeine BP 30 (anhydrous)	mg	29.60mg (98.7%)	90.0% to 110.0% of the labeled claim I.e. 27.0mg to 33.0mg	
	Paracetamol BP 500	Omg	491.09mg(98.27-)	90.0% to 110.0% of the labeled claim I.e. 450.0mg to 550.0mg	
14.0	Microbial Contamination				
	i) Total Viable aerobic count				
	a) Total aerobic microbial co	unt	80 Cfulgm	Not more than 1000 cfu/g	
	b) Total yeast and mould cou	int	Absent	Not more than 100 cfu/g	
	ii) Pseudomonas aeruginosa		Absent	Should be absent/g	
	iii) Salmonella Species		phsend	Should be absent/10g	
	iv) Esherichia Coli		Absent	Should be absent/g	
	v) Staphylococcus aureus		Absend	Should be absent/g	
Remark	s: The product Complies / Doe	esn't con	npty as per Specifi	cation.	
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Date:		Date	: Hollystow	Date: \3\65\20	

Remarks: The above * marked test results shall be documented as based on Compressed stage report.

The # Marked parameters shall be monitored up to five batch, after five batch the limit will be fixed.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- **Finished Product**

Batch No/Lot No.	GD 200301	A.R.No.	FGE 106306	12020
STP No	ROA No	Revision No.	Effective date	Page No:
FGTTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	1 of 5

S.No		TEST / OB	SERVATION / LIMIT					
1.0	Description:			œ				
	Light yellow coloured, flat, round beveled edged uncoated tablet with break line on one side and plain on another side.							
	Observation: Conforms:	Does not conform:						
	Analyst: (1)		Date: 13/11/202	20				
2.0	Identification:							
	Refer: Compressed tablet	report.						
	Observation: Conforms: [Does not conform:						
	Analyst: C.K. Saw	Janan	Date: 13/05/	2000				
3.0	Average weight:							
	Balance ID: ST/QC/EQ	1041	Calibration due date:	06/05/2020				
	Number of tablets	Total weight (g)	Average weight of a tablet(g)	Limit (g)				
	20	12.7625 Jm	0 ^ 6331gm	0.6159 - 0.6540				
	Observation: Conforms:	Does not conform:						
	Analyst: 2		Date: 13/457	2021				
4.0	Uniformity of weight:							
	Balance ID: ST/QC/EQ	1/ DL+1	Calibration due date:	06/08/2020				
	0							

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Finished Product

Batch No/Lot No.	50200301	A.R.No.	FGB100306/2020		
STP No	ROA No	Revision No.	Effective date	Page No:	
FGTTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	2 of 5	

				S.No	Weight(g)	S.No	Weight(g)	
S.No	Weight(g)	S.No	Weight(g)	S.NO	Weight(g)	3.110	(reight(g)	
1	0'6301	6	0.6343	11	0-6334	16	0.6424	
2	0'6247	7	0.8403	12	0.6424	17	0-6361	
3	0-6376	8	0.6409	13	0 6392	18	0.9382	
4	0'6353	9	0.6413	14	0.9427	19	0.9482	
5	0-6390	10	0.6427	15	0.6402	20	0.6372	
Deviat	ion (Mini): { <u>Low</u>	est weig erage w		Deviat			eight X100} -100 weight	
$= \left\{ \frac{\cancel{0} \cdot \cancel{62} \cancel{\sqrt{3}}}{0.635} \times 100 \right\} - 100$					$= \left\{ \frac{0.6435}{0.635} \times 100 \right\} - 100$			
= -	1-62%			= +	1-24 %			

Limit:	土	7.5	5%	deviation	from	the	average	weight	of	a	tablet
--------	---	-----	----	-----------	------	-----	---------	--------	----	---	--------

Observation: Conforms: Does not conform:

Analyst: 20 Date: 13/05/2020

5.0 Diameter:

Refer: Compressed tablet report.

6.0 Thickness:

Refer: Compressed tablet report.

7.0 Hardness:

Refer: Compressed tablet report.

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Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- **Finished Product**

Batch No/Lot No. GD200301		A.R.No.	FG15/0630+	12020
STP No	ROA No	Revision No.	Effective date	Page No:
FGTTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	3 of 5

8.0	Disintegration time:	
	DT Apparatus ID: ST/QC/EQ/ 004	Calibration due date: 16/07/2020
	assembly in the beaker containing water maintained and Observe all the tablets, if all the tablets are disintegrated	ion testing apparatus. Add a disc to each tube suspend the at $37^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and operate the apparatus for 30 minutes. Ed completely within 30 minutes, lift the basket from the fluid to disintegrate completely, repeat the test on 12 additional the total of 18 tablets tested are disintegrated.
	Result: 08 Mins 58 Lecs	Limit: Not more than 15 minutes
	Observation: Conforms: 🖒 Does not conform: 🗆	
	Analyst: (1)	Date: 13/05/2020
9.0	Friability:	
	Refer: Compressed tablet report.	
10.0	Dissolution:	×
	Refer: Compressed tablet report.	
11.0	Uniformity of content:	*
	Refer: Compressed tablet report.	
12.0	Related substances:	
	Refer: Compressed tablet report.	
13.0	Assay:	
	Refer: Compressed tablet report.	

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Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Finished Product

Batch No/Lot No. G1D20030)		A.R.No.	Fas 100306	12020
STP No	ROA No	Revision No.	Effective date	Page No:
FGTTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	4 of 5

Microbial contamination: a. Total aerobic microbial count: Procedure: Proceed as per the current General Analytical Method GAM-035. b. Total Moulds and yeast count: Procedure: Proceed as per the current General Analytical Method GAM-036. Pathogens: C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: B) Total yeast and mould count: D) Total yeast and mould count: D) Total yeast and mould count: Not more than 100 cfu/g b) Total yeast and mould count: Not m	F	GTTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	4 of 5
a. Total aerobic microbial count: Procedure: Proceed as per the current General Analytical Method GAM-035. b. Total Moulds and yeast count: Procedure: Proceed as per the current General Analytical Method GAM-036. Pathogens: C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: b) Total yeast and mould count: b) Total yeast and mould count: ii) Pseudomonas aeruginosa: Absent iii) Salmonella Species: Absent iii) Salmonella Species: Should be absent/g v) Staphylococcus aureus: Absent v) Staphylococcus aureus: Absent v) Staphylococcus aureus: Should be absent/g Doses not conform:						
Procedure: Proceed as per the current General Analytical Method GAM-035. b. Total Moulds and yeast count: Procedure: Proceed as per the current General Analytical Method GAM-036. Pathogens: C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: b) Total yeast and mould count: ii) Pseudomonas aeruginosa: Absent iii) Salmonella Species: Absent iii) Salmonella Species: Should be absent/g v) Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: ii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Should be absent/g v) Staphylococcus aureus: Should be absent/g v) Staphylococcus aureus: Should be absent/g v) Staphylococcus aureus: Should be absent/g Observation: Conforms: D	14.0	Microbial contami	ination:			
b. Total Moulds and yeast count: Procedure: Proceed as per the current General Analytical Method GAM-036. Pathogens: C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: b) Total yeast and mould count: c) Total yeast and mould count: Not more than 1000 cfu/g b) Total yeast and mould count: Not more than 1000 cfu/g ii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Should be absent/g v) Staphylococcus aureus: Note: For Microbiological Parameters test refer Commercial Lab Report No: A P 2 2 0 bat of 024. Observation: Conforms: D Does not conform: D		a. Total aerobic n	nicrobial count:			
Procedure: Proceed as per the current General Analytical Method GAM-036. Pathogens: C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: Absent ii) Pseudomonas aeruginosa: Absent iii) Salmonella Species: Phisent iv) Esherichia Coli: Phisent Note: For Microbiological Parameters test refer Commercial Lab Report No: Pathogens C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: iii) Salmonella serobic count: ii) Total Viable aerobic count: iii) Salmonella Species: Should be absent/g iii) Salmonella Species: Should be absent/g v) Staphylococcus aureus: Note: For Microbiological Parameters test refer Commercial Lab Report No: Action Conforms: Does not conform:		Procedure: Procee	ed as per the current General	Analytical Method G	AM-035.	
Pathogens: C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: Placent ii) Pseudomonas aeruginosa: Placent iii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Placent iii) Pseudomonas aeruginosa: Should be absent/g iv) Esherichia Coli: Placent iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Placent v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: Pel 2 of out 6.24 Observation: Conforms: Debes not conform: D		b. Total Moulds a	nd yeast count:			
C. Esherichia Coli: Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: Not more than 1000 cfu/g b) Total yeast and mould count: Physic nt ii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Should be absent/g iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Physic nt v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: Pl 2 0 1 5 1 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 2 5 6 5 6		Procedure: Procee	ed as per the current General	Analytical Method G	AM-036.	
Procedure: Proceed as per the current General Analytical Method GAM-037. d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: i)Total yeast and mould count: i)Total yeast and mould count: Not more than 1000 cfu/g b) Total yeast and mould count: Not more than 100 cfu/g ii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: P 2 2 5 5 5 5 2 5 5 5 5 5 5 5 5 5 5 5 5		Pathogens:				
d. Salmonella Species: Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: i)Total yeast and mould count: In the sent ii) Pseudomonas aeruginosa: Ansent iii) Pseudomonas aeruginosa: Ansent iii) Pseudomonas aeruginosa: Ansent iii) Pseudomonas aeruginosa: Phisent iii) Salmonella Species: Ansent iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: Phisent iv) Esherichia Coli: Should be absent/10g iv) Staphylococcus aureus: Should be absent/10g v) Staphylococcus aureus: Should be absent/10g		C. Esherichia Coli	:			
Procedure: Proceed as per the current General Analytical Method GAM-038. e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: Physent ii) Pseudomonas aeruginosa: Physent iii) Pseudomonas aeruginosa: Physent iii) Pseudomonas aeruginosa: Physent iii) Salmonella Species: Physent iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: Physent iv) Staphylococcus aureus: Physent v) Staphylococcus aureus: Physent v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: PR 1201611021		Procedure: Procee	ed as per the current General	Analytical Method G.	AM-037.	
e. Pseudomonas aeruginosa: Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i) Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: Physic nd ii) Pseudomonas aeruginosa: Physic nd iii) Pseudomonas aeruginosa: Physic nd iii) Salmonella Species: Physic nd iii) Salmonella Species: Physic nd iii) Salmonella Species: Should be absent/g iii) Salmonella Species: Should be absent/g v) Staphylococcus aureus: Physic nd v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: PR 2 2 0 1 6 1 6 2 6 16 16 16 16 16 16 16 16 16 16 16 16 1		d. Salmonella Spe	ecies:			
Procedure: Proceed as per the current General Analytical Method GAM-039. f. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: 80 (fulgor) b) Total yeast and mould count: 80 (fulgor) b) Total yeast and mould count: 80 (fulgor) b) Total yeast and mould count: Not more than 1000 cfulgor) ii) Pseudomonas aeruginosa: 865887 (ii) Pseudomonas aeruginosa: Should be absent/gor) iii) Salmonella Species: Should be absent/gor) iii) Salmonella Species: Should be absent/gor) v) Staphylococcus aureus: 865887 (v) Staphylococcus aureus: Should be absent/gor) Note: For Microbiological Parameters test refer Commercial Lab Report No: 88887 (2016) Observation: Conforms: 1000 poses not conform: 1000 cfulgor)		Procedure: Procee	ed as per the current General	Analytical Method G	AM-038.	
F. Staphylococcus aureus: Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: b) Total yeast and mould count: i)Total veast and mould count: i) Total yeast and mould count: Not more than 1000 cfu/g b) Total yeast and mould count: Not more than 100 cfu/g ii) Pseudomonas aeruginosa: Absent iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: v) Staphylococcus aureus: Absent v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: Doservation: Conforms:		e. Pseudomonas	aeruginosa:			
Procedure: Proceed as per the current General Analytical Method GAM-040. Result: i)Total Viable aerobic count: a) Total aerobic microbial count: BO (fulgeration) b) Total yeast and mould count: Absent ii) Pseudomonas aeruginosa: Absent iii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Absent iii) Salmonella Species: Absent iv) Esherichia Coli: Absent iv) Staphylococcus aureus: Absent v) Staphylococcus aureus: Note: For Microbiological Parameters test refer Commercial Lab Report No: Does not conform: Does not conform: Limit: i)Total Viable aerobic count: Not more than 1000 cfu/geration ii) Pseudomonas aeruginosa: Should be absent/geration v) Staphylococcus aureus: Should be absent/geration Observation: Conforms: Does not conform: Does not co		Procedure: Procee	ed as per the current General	Analytical Method G	AM-039.	
Result: i)Total Viable aerobic count: a) Total aerobic microbial count: BO (Aulgation) Total yeast and mould count: BO (BUIGN)		f. Staphylococcus	aureus:			
i)Total Viable aerobic count: a) Total aerobic microbial count: 80 (Aul 9		Procedure: Procee	ed as per the current General	Analytical Method G	AM-040.	
a) Total aerobic microbial count: 80 (fulger b) Total yeast and mould count: 9 by Total yeast and mould count: 9 by Total yeast and mould count: 9 by Total yeast and mould count: Not more than 1000 cfu/ger b) Total yeast and mould count: Not more than 100 cfu/ger b) Total yeast and mould count: Not more than 100 cfu/ger b) Total yeast and mould count: Not more than 100 cfu/ger b) Total yeast and mould count: Not more than 1000 cfu/ger b) Total yeast		Result:		Limit:	:	
b) Total yeast and mould count: Absent b) Total yeast and mould count: Not more than 100 cfu/g ii) Pseudomonas aeruginosa: Absent ii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Absent iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: Absent iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Absent v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: AP 2016 of 025 Observation: Conforms: Does not conform: D		i)Total Viable aerob	oic count:	i)Total Via	ble aerobic count:	
b) Total yeast and mould count: Absent b) Total yeast and mould count: Not more than 100 cfu/g ii) Pseudomonas aeruginosa: Absent ii) Pseudomonas aeruginosa: Should be absent/g iii) Salmonella Species: Absent iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: Absent iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Absent v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: AP 2016 of 025 Observation: Conforms: Does not conform: D		a) Total aerobic mi	crobial count: 80 (A	a) Total a	erobic microbial count: No	t more than 1000 cfu/g
iii) Salmonella Species: Absent iii) Salmonella Species: Should be absent/10g iv) Esherichia Coli: Absent iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Absent v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: AP 2016 of 025 Observation: Conforms: Does not conform: D		b) Total yeast and			east and mould count: Not	more than 100 cfu/g
iv) Esherichia Coli: Absend iv) Esherichia Coli: Should be absent/g v) Staphylococcus aureus: Absend v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: AR 2016 0000000000000000000000000000000000		ii) Pseudomonas ad	eruginosa: Absent	ii) Pseudo	monas aeruginosa: Should	l be absent/g
v) Staphylococcus aureus: Ahsens v) Staphylococcus aureus: Should be absent/g Note: For Microbiological Parameters test refer Commercial Lab Report No: AR 1201611625 Observation: Conforms: Does not conform: D		iii) Salmonella Spe	cies: Absent	iii) Salmor	nella Species: Should be a	bsent/10g
Note: For Microbiological Parameters test refer Commercial Lab Report No: AR 201010101010101010101010101010101010101				iv) Esherid	chia Coli: Should be absen	t/g
Observation: Conforms: Does not conform: D						
		Note: For Microb	iological Parameters test I	efer Commercial L	ab Report No: HR/2	20/05/05/025
Analyst: Total Lap. Date: 11/05/2000		Observation: Con	forms: Does not confor			
		Analyst: Tole	al Lap.	Date: 1	1/05/2000	

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Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and

Paracetamol 500mg)- Finished Product

	Batch No/Lot No.	F4B GD 200301	A.R.No.	FAE 106300	5/2020
2	STP No	ROA No	Revision No.	Effective date	Page No:
	FGTTSL022-00	ROA/ FGTSL022-00	00	03-03-2020	5 of 5

ANALYTICAL REPORT VERIFICATION CHECK LIST: 15.0

Check the following details and enclosures in the report. If the details are available then put \checkmark mark on the remarks column and put 'x' mark if the details are not available

S.No:	DETAILS	Remarks:
1	TRF is enclosed with the protocol	p k
2	Product name, B.No, Mfg date, Exp date, A.R.No matches with TRF	A
3	All the tests are performed as per standard specification	197
4	All the sheets are page numbered, signed and dated by analyst	٩
5	The protocol is duly filled, no blank place, calculations and entries are ok	47
6	The printouts of UV-VIS spectrophotometer readings are enclosed	A
7	The spectrum of IR spectrophotometer is enclosed	—
8	All HPLC chromatograms are enclosed	M.
9	Other instruments sheets (if applicable, then specify in comments column)	by
10	Public laboratory reports (if applicable, then specify the reasons below)	
11	Comments (if any): Weigh Balence Print and Bheat is enclosed "d' neare is not applicable in this product	

Remarks: The report	is found	to be	satisfactory not satisfactory	
Verifying authority (Sian & dat	.e).	satisfactory 7 not satisfactory	
Verifying authority (sign & dat	:e): _	131001	

Date: 13/05/2010 Checked by:

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Format No: ST/QC/058(R1):A1



Safetab Life Science Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Specification No	ROA No	Revision No.	Effective date	Page No:
IMSL00117-00	ROA/ IML00117-00	00	03-03-2020	1 of 4

Batch No.	GD200301	Sample Quantity	100 tablets
Batch Size	10.01ac	Sampled By /Date	Nirmadras /31/03/2020
Mfg. Date	Mar-2020	Test started on	07/04/2020
Exp. Date	Feb-2023	Test completed on	15/04/2020
Stage	Compressed Tablets	A.R.No	SFP1c 100345/2020

	PRODUCT TEST REPORT					
5.NO	TEST	RESULT	SPECIFICATION			
1.0	Description	Light Yellow Coloured iflat, round beveled edged, worked to blet with break line on one side and Plain on a nother side.	Light yellow coloured, flat, round beveled edged uncoated tablet with break line on one side and plain on another side.			
2.0	Identification					
	a) Chlorphenamine Maleate (By HPLC)	complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Chlorphenamine Maleate in the standard preparation as obtained in assay.			
	b) Phenylephrine Hydrochloride (By HPLC)	Complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Phenylephrine Hydrochloride in the standard preparation as obtained in assay.			
	c) Caffeine (By HPLC)	Complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Caffeine in the standard preparation as obtained in assay.			
Remark	Remarks: The product Complies / Doe sn't comply as per Specification.					
	ANALYSED BY	CHECKED BY	APPROVED BY			
Sign: Date:	150× 200	Sign: Date: The four Low	Sign: Date:			

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Specification No	ROA No	Revision No.	Effective date	Page No:
IMSL00117-00	ROA/ IML00117-00	00	03-03-2020	2 of 4

	PRODUCT TEST REPORT					
s.NO	TEST	RESULT	SPECIFICATION			
	d) Paracetamol (By HPLC)	complies	The retention time of one of major peak in the chromatogram of the sample preparation corresponds to the peak due to Paracetamol in the standard preparation as obtained in assay.			
3.0	Average weight of tablet	635, 7 mg	635.0 mg ± 3 % (615.9 mg to 654.0 mg)			
4.0	Uniformity of weight	Min (-): ひ~87 ゾ, Max(+): 1、06 ゾ,	Not more than 2 of the individual weights deviate from the average weight by more than $\pm 5\%$ and none deviate by more than $\pm 10.0\%$.			
5.0	*Diameter	12.71 mm	12.70 ± 0.20mm (12.50 – 12.90)			
6.0	*Thickness	4.31 mm	4.30±0.2mm (4.10 - 4.50mm)			
7.0	*Hardness	214.84 N	100 N - 250 N			
8.0	Disintegration time	Us Minutes 49 seconds	Not more than 15 minutes			
9.0	Friability	· 0·22 y,	Not more than 1.0%			
10.0	Dissolution Chlorphenamine Maleate BP	Min: 87.97.; Max: 95.07. Avg: 92.67.	Not less than 80% of the stated amount of Chlorphenamine Maleate dissolved in 45 Minutes.			
Remar	Remarks: The product Complies / Doesn't comply as per Specification.					
	ANALYSED BY	CHECKED BY	APPROVED BY			
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Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Specification No	ROA No	Revision No.	Effective date	Page No:
IMSL00117-00	ROA/ IML00117-00	00	03-03-2020	3 of 4

	PRODUCT TEST REPORT					
S.NO	TEST	RESULT	SPECIFICATION			
	Phenylephrine Hydrochloride Bl	Min: 95.17,; Max: 97.07, Avg: 96.0%	Not less than 80% of the stated amount of Phenylephrine Hydrochloride dissolved in 45 Minutes.			
	Caffeine BP	Min: 98'67.; Max: 110'17. Avg: 101.17.	Not less than 80% of the stated amount of Caffeine Anhydrous dissolved in 45 Minutes.			
	Paracetamol BP	Min: 97.4%, ; Max: 169.2%, Avg: 100.3%,	Not less than 80% of the stated amount of Paracetamol dissolved in 45 Minutes.			
11.0	Uniformity of content					
	Chlorphenamine Maleate BP	Min: 96.0%, ; Max: 100.2%, Avg: 97.2%.	Not less than 85.0% and not more than 115.0% of the average value.			
	Phenylephrine Hydrochloride B	Min: 94.17, ; Max: 99, 27, Avg: 95.27,	Not less than 85.0% and not more than 115.0% of the average value.			
12.0	Related substances					
	i) Single maximum unknown impurity ii) Total impurities	0.02%	Not more than 0.20% Not more than 0.50%			
12.0						
13.0	Assay: Each Uncoated ta	piet				
	Chlorphenamine Maleate BP 2	2mg 1-90mg (95.24)	90.0% to 110.0% of the labeled claim I.e. 1.8mg to 2.2mg			
	Phenylephrine Hydrochloride BP 5mg	4.87mg (97.5%)	90.0% to 110.0% of the labeled claim I.e. 4.5mg to 5.5mg			
Remark	ks: The product Complies / Dees	n't comply as per Specifi	cation.			
	ANALYSED BY	CHECKED BY	APPROVED BY			
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Date:	150A 2020	A donn	Date: 15/04/20			

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Specification No	ROA No	Revision No.	Effective date	Page No:
IMSL00117-00	ROA/ IML00117-00	00	03-03-2020	4 of 4

	PRODUCT TEST REPORT					
s.No	TEST	RESULT	SPECIFICATION			
and the second s	Caffeine (anhydrous) BP 30r	ng 29.60 mg (98.7%)	90.0% to 110.0% of the labeled claim I.e. 27.0mg to 33.0mg			
	Paracetamol BP 500i	mg 491.09 mg (98.24)	90.0% to 110.0% of the labeled claim I.e. 450.0mg to 550.0mg			
Remark	ks: The product Complies / Does	s n't comply as per Speci	fication.			
	ANALYSED BY	CHECKED BY	APPROVED BY			
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Date:	18/0.	Date: Toulson	Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			

Remarks: The *Marked parameters shall be monitored up to five batch, after five batch the limit will be fixed.



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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD200301	A.R.No. SFP11100345/2020		5/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	1 of 25

S.No		TEST / OB:	SERVAT	ION / LIMIT			
1.0	Description:						
	Light yellow coloured, flat,	round beveled edged uncoa	ated tabl	et with break line on	one side and plain on another side.		
	Observation: Conforms:	Does not conform:		***************************************			
	Analyst: K. Saum	st: K. Salon Date: 08/04/2020					
2.0	Identification:				L NE O		
	a) Chlorphenamine Maleate: The RT of Chlorphenamine Maleate peak in standard <u>Ly 749</u> min, the RT of						
	principal peak in assay 14, 200 min.						
	h) Phonylenhrine Hydro	chloride: The PT of Pheny	denhrine	Hydrochloride neak	in standard 4 452 min, the		
	RT of principal peak in assa	02	утеритие	Trydrochioride peak	m standard 7452 mm, the		
	c) Caffeine: The RT o	f Caffeine peak in stand	dard 12	min, the	RT of principal peak in assay		
	12.385 min.						
				10:007			
		Γ of Paracetamol peak in	standard	min,	the RT of principal peak in assay		
	10,238 min.		7				
	Observation: Conforms:	Does not conform: □		*			
	Analyst:			Date: 13/04/	2020		
3.0	Average weight of table	t:					
	Balance ID: ST/QC/EQ	130	Cali	bration due date:	06/05/2020		
	Number of tablets Total weight (g) Average weight of a tablet(g) Limit (g)						
	20 12.71359 0.6357gm 0.6159-0.6540						
	Observation: Conforms: Does not conform:						
	Analyst: K. Saw	1		Date: 08/0	4/2020		
	1	-		1			

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Checked by :	Date:	2020

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	610 200301	A.R.No.	SFP1c 100345/2020		
STP No	ROA No	Revision No.	Effective date	Page No:	
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	2 of 25	

4.0	Uniformity of weight:	
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Balance ID: ST/QC/EQ/ 030 Calibration due date: 06/05/2020

5.No	Weight(g)	S.No	Weight(g)	S.No	Weight(g)	S.No	Weight(g)
1	0.6347	6	0.6357	11	0.6372	16	0.6370
2	0.6379	7	6.6354	12	0'6340	17	0.6417
3	0.6377	8	0.938)	13	0.6193	18	0. 6837
4	0.6388	9	6'6337	14	0.6309	19	0.6305
5	0'6332	10	0.6408	15	0'6393	20	0.6337

Deviation (Mini): { Lowest weight X100} -100

Average weight

Deviation (Max): { <u>Highest weight X100</u>} -100
Average weight

$$= \{ \frac{0.6255}{0.635} \times 100 \} - 100$$

$$= \{ \frac{0.6417}{0.635} \times 100 \} - 100$$

= + 1.06 %

Limit: Not more than 2 of the individual weights deviate from the average weight by more than $\pm 5\%$ and none deviate by more than $\pm 10.0\%$.

Observation: Conforms: Does not conform:

Analyst: K. Salors Date: 08/04/2020

5.0 Diameter:

Vernier caliper ID: ST/QC/EQ/ 008 Calibration due date: 11 02/2020

1.12.69	2. 12.73	3. 12.71	4. 12.75	5. 12.71
6. 12-72	7. 12.70	8. 12.70	9. 12:70	10. 12.70

Checked by :

Date: 18/04/2020

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	600200361	A.R.No.	SFP/C/003V5/0020		
STP No	ROA No	Revision No.	Effective date	Page No:	
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	3 of 25	

	Result: 12 - Hm	m		Limit: 12.	70 ± 0.20mm (12.50 –	12.90)				
	Observation: Conforms: Does not conform:									
	Analyst: K. Sa	ins		Date: &	8/04/2020					
6.0	Thickness:									
	Vernier caliper ID: S	ST/QC/EQ/ DO 8		Calibration	due date: 11 62	2021				
	1. 4-29 6. 4-80	2. 4.30	3.		4. 4.82	5. 4.32				
	6. A-30	7. 4°36	8. 4	20	9.4.32	10. 4-32				
	Result: 4-31mm	7)		Limit: 4.3	30±0.2mm (4.10 – 4.50	mm)				
	Observation: Conform	s: Does not confor	m: 🗆							
	Analyst: K Sa	loos		Date: 08/04/2020						
7.0	Hardness:	7								
	Hardness Test ID: S	T/QC/EQ/ 03 5		Calibration	due date: 07/(0	12020				
					A CONTRACTOR OF THE CONTRACTOR					
	1. 231.69	2. 202·21 7. 208·32	3. 21	4.38	4.237.83	5. 194-64				
	6. 211.62	7. 208.32	8. 2	U7·21	10. 213:49					
	Result: 214 84	N .		Limit: 100	0 N - 250 N					
	Observation: Conform	s: Does not confo	rm: 🗆							
	Analyst: C.Sa	uend		Date: 08/04/2020						
8.0	Disintegration time:									
	DT apparatus ID: S	r/QC/EQ/004	Calibration due date: 16/07/2020							
		nto each tube of the d containing water maint				each tube suspend the s for 30 minutes.				

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	C1D 200301	A.R.No.	SFP/C/00345/2620				
STP No	ROA No	Revision No.	Effective date	Page No:			
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	Observe all the tablets, if all the tablets are disintegrated completely within 30 minutes, lift the basket from the flui and note down the time required. If 1 or 2 tablets fail to disintegrate completely, repeat the test on 12 additional tablets. The requirement is met if not fewer than 16 of the total of 18 tablets tested are disintegrated.								
	Result: 05 Mins 2	19 seconds	Limit: Not more than 15 minutes						
	Observation: Conforms:	Does not conform: □							
	Analyst: K. Salon	1.	Date: 08/04/2020						
9.0	Friability:								
	Balance ID: ST/QC/EQ/	030	Calibration due date: 06/05/2020						
	Friability ID: ST/QC/EQ/	010	Calibration due date: 07/07/2020						
	Weigh 11 tablets and note down the mass in gram up to four decimals (a). Placed weighed tablets in friability test apparatus and operate the friability test apparatus for 100 rotations. After completion of the test collect the tablet from sample collector carefully. Remove broken particles, chipped pieces (if any) by means of gentle brushing. Weig the tablet and record the mass in gram up to four decimals (b). Initial weight (Before friability) (After friability)								
	7-0021	6.9866							
	% of Friability = $\frac{7.0021 - 6.9866}{7.0021} \times 100 = \frac{0.22}{\%}$								
	Result: 0 22 %	v	Limit: Not more than 1.0% w/w						
	Observation: Conforms:	7 Does not conform: □							
	Analyst: K. Sour	1	Date: 08/04/2020						
10.0	DISSOLUTION:								
	Balance ID: ST/QC/EQ/	02+1	Calibration due date: 06/05/2020						
	HPLC ID: ST/QC/EQ/	45	Calibration due date: 12/09/2020						
	Dissolution apparatus ID		Calibration due date: 08/07/2020						
	pH meter ID: ST/QC/EQ,	1036	Calibration due date: 26/04/2020						
Check	ed by:	Date: \ XVY LOW							

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and

Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G1D200301	A.R.No.	SFP1C 100345/2020			
STP No	ROA No	Revision No.	Effective date	Page No:		
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	5 of 25		

Column ID : QC/CL/ 19/069

Reference: In House Procedure: By HPLC

Chemicals/Reagents/Standards:

Chlorphenamine Maleate

: Working standard

Phenylephrine Hydrochloride

Working standard

Caffeine

Working standard

Paracetamol

Working standard

Potassium Dihydrogen orthophosphate

AR grade

Orthophosphoric acid

AR grade

Methanol

HPLC grade

Acetonitrile

HPLC grade

Purified Water

Milli-Q water (or) equivalent

Dissolution parameters:

Apparatus

Paddle (USP Apparatus 2)

Medium

900ml of PH 6.8 Phosphate buffer

Time

45 minutes

Speed

75 RPM

Temperature

37° C ± 0.5° C

Preparation of Dissolution medium:

Dissolve 68g of Potassium dihydrogen phosphate and 9.8g of Sodium hydroxide pellets in 10 liters of purified water mix well.

Preparation of Buffer:

Weigh accurately about 6.8 g of potassium Di-hydrogen orthophosphate in 1000 mL of milli-Q water, sonicate to dissolve. Adjust pH to 3.00 (3.0 \pm 0.05) with Orthophosphoric acid. Filter through 0.45 μ membrane filter.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GN 200301	A.R.No.	SFP12/00345/2020				
STP No	ROA No	Revision No.	Effective date	Page No:			
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	6 of 25			

Chromatographic Conditions:

Column

: Inertsil ODS-3V, 250 mm X 4.6 mm, 5µm (or) Equivalent

Wave length

220 nm

Column Temperature

: 40°C

Flow Rate

: 1.2 mL/min

Injection Volume

Retention time

: 20 μL

Run time

30.01 Minutes

About 4.6 minutes for Phenylephrine Hydrochloride, about 10.5 minutes for Paracetamol, about 12.7 minutes for Caffeine and about 14.8 minutes for

Chlorphenamine maleate,

Preparation of Mobile phase-A:

Prepare a degassed mixture of buffer and acetonitrile in the ratio 95:5 v/v.

Preparation of Mobile phase-B:

100% Methanol

Preparation of Blank solution:

Use Dissolution medium as a blank.

Preparation of Diluent:

Prepare a degassed mixture of Buffer and methanol in the ratio 50:50 v/v.

Gradient Program:

Time	Mobile phase A %	Mobile phase B%
0.01	100	0
6.0	100	0
7.0	70	30
9.0	70	30
10.0	45	55
25.0	45	55
27.0	100	0
30.01	100	0

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G10900301	A.R.No.	SFP/L/00345/2020				
STP No	ROA No	Revision No.	Effective date	Page No:			
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	7 of 25			

Preparation of Standard stock solution:

Weigh accurately and transfer about 27-92mg (28mg) of Chlorphenamine maleate working standard (W.S.No. / Valid upto WS/A/09 lo) / 14 log/2020), 67-97mg (68mg) of Phenylephrine Hydrochloride working standard (W.S.No. / Valid upto WS/A/100) / 13/11/2020) and 82-97mg (83mg) of Caffeine working standard (W.S.No. / Valid upto WS/A/09/04 / 12/10/2020) into a 250 mL volumetric flask, add 20 mL of diluent and sonicate to dissolve and make up to volume with dissolution medium and mix.

Preparation of Standard solution:

Test Preparation:

Preparation of sample solution(A) (For Chlorphenamine maleate and Phenylephrine Hydrochloride)

Set the dissolution parameters and place one tablet into each vessel individually containing 900 mL of dissolution medium, immediately start the apparatus. At the end of specified time withdraw the sample and filter through 0.45μ PVDF filter.

Preparation of Sample Solution-B:(For Paracetamol and Caffeine)

Further dilute 10 mL of above filtered solution to 50 mL with Dissolution medium and mix.

Procedure:

Inject the solutions as mentioned below and measure the responses of the peaks due to Paracetamol, Phenylephrine Hydrochloride, Chlorphenamine maleate, Caffeine.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	010200301	A.R.No.	SFP/C/00345/202			
STP No	ROA No	Revision No.	Effective date	Page No:		
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Injection sequence:

S. No	Sample Name	No. of injections
1	Dissolution medium (blank)	1
2	Standard preparation	5
3	Sample solution A (1 injection each)	. 6
4	Sample solution B (1 injection each)	6
5	Bracketing standard	1 (After every 6 injections)

System suitability:

Theoretical plate count

NLT 2000 for Paracetamol, Phenylephrine Hydrochloride, Chlorphenamine

maleate, Caffeine peak.

Tailing factor

NMT 2.0 for Paracetamol, Phenylephrine Hydrochloride, Chlorphenamine

maleate, Caffeine peak.

Relative standard deviation

NMT 2.0% for five replicate injections of Paracetamol, Phenylephrine

Hydrochloride, Chlorphenamine maleate, Caffeine peak.

Calculations:

Calculate % drug release of Chlorphenamine maleate as follows:

	AT		WS		4		900		P		100
=		X		Х		Х		X		X	
	AS		250		200		1		100		LC

Where,

AT

= Area of peak due to Chlorphenamine maleate in Sample solution A.

AS

Average area of peak due to Chlorphenamine maleate in standard preparation.

WS

Weight of Chlorphenamine maleate working standard in mg.

P

Potency of Chlorphenamine maleate working standard in % on as such basis.

LC

= Label claim of Chlorphenamine maleate in mg/tablet.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	610200301	A.R.No.	SFP16/003	45/2020
STP No	ROA No	Revision No.	Effective date	Page No:
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Calculate % drug release of Phenylephrine Hydrochloride, as follows:

Where,

AT = Area of peak due to Phenylephrine hydrochloride in Sample solution A.

AS = Average area of peak due to Phenylephrine hydrochloride in standard preparation.

WS = Weight of Phenylephrine hydrochloride working standard in mg.

P = Potency of Phenylephrine hydrochloride working standard in % on as such basis.

LC = Label claim of Phenylephrine hydrochloride in mg/tablet.

Calculate % drug release of Caffeine as follows:

Where,

AT = Area of peak due to Caffeine in Sample solution B.

AS = Average area of peak due to Caffeine in standard preparation.

WS = Weight of Caffeine working standard in mg.

P = Potency of Caffeine working standard in % on as such basis.

LC = Label claim of Caffeine in mg/tablet.

Calculate % drug release of Paracetamol as follows:

Where,

AT = Area of peak due to Paracetamol in Sample solution B.

AS = Average area of peak due to Paracetamol in standard preparation.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G1D200301	A.R.No.	SFP1c100345/2620		
STP No	ROA No	Revision No.	Effective date	Page No:	
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WS

Weight of Paracetamol working standard in mg.

Potency of Paracetamol working standard in % on as such basis.

LC

Label claim of Paracetamol in mg/tablet.

Limit: Not less than 80% of the stated amount of Chlorphenamine Maleate dissolved in 45 Minutes.

Not less than 80% of the stated amount of Phenylephrine Hydrochloride dissolved in 45 Minutes.

Not less than 80% of the stated amount of Caffeine dissolved in 45 Minutes.

Not less than 80% of the stated amount of Paracetamol dissolved in 45 Minutes.

Result: HPLC Graph and validated XL sheet attached.

Observation: Conforms: Does not conform:

Analyst:

04/2020 Date:

11.0 **Uniformity of content:**

(Chlorphenamine maleate and Phenylephrine Hydrochloride)

Balance ID: ST/QC/EQ/ D4)	Calibration due date: 06 /05 /2020
HPLC ID: ST/QC/EQ/ 039	Calibration due date: 26 10 71 2020

Column ID : QC/CL/ 19 689

Reference: In-house Procedure: By HPLC

Note 1: Buffer preparation, Diluent, Mobile phase A, Mobile phase B, Chromatographic condition and gradient program proceed as directed under dissolution test.

Note 2: Standard preparation use under assay test.

Test preparation:

Take 1 tablet into 100 ml volumetric flask. Add about 10 ml of purified water and shake gently to disperse the tablet completely. Add about 60 ml of diluent, sonicate for 20 minutes with intermediate shaking, cool and dilute up to the volume with diluent and Centrifuge this solution at 3000rpm for 10 Minutes. Further dilute 10 ml of this solution to 25ml with diluent. Repeat the same procedure for another 9 tablets.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G1D200301	A.R.No.	5 FP1 c 1003	15/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	11 of 25

Procedure:

Equilibrate the chromatographic system with mobile phase till a stable baseline is obtained. Separately inject equal volumes (20 μ I) of solutions as per Sequence of injections into the chromatograph and record the peak area responses for the major peaks and check for the System suitability requirements.

Injection sequence:

S. No	Sample Name	No. of injections
1	Diluent (blank)	1
2	Standard preparation	5
3	Test preparation	10
4	Bracketing standard	1 (After every 10 injections)

System suitability:

Theoretical plate count

: NLT 2000 for Chlorphenamine maleate and Phenylephrine Hydrochloride peak.

Tailing factor

: NMT 2.0 for Chlorphenamine maleate and Phenylephrine Hydrochloride peak.

Relative standard deviation

NMT 2.0% for five replicate injections of Chlorphenamine maleate and

Phenylephrine Hydrochloride peak.

Calculation:

Calculate the % content of Chlorphenamine maleate by using following formula:

Where,

AT

Area of peak response of Chlorphenamine maleate obtained with Test preparation

AS

Average area peak response of Chlorphenamine maleate obtained with replicate

injections of standard preparation

WS

Weight of Chlorphenamine maleate working standard in mg.

P

Potency of Chlorphenamine maleate working standard in % on as such basis.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G1D200301	A.R.No.	SFP10/00345	5/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	12 of 25

LC

Label claim of Chlorphenamine maleate in mg.

Calculate the % content of Phenylephrine Hydrochloride by using following formula:

Where,

AT = Area of peak response of Phenylephrine hydrochloride obtained with Test preparation.

AS = Average area of peak response of Phenylephrine hydrochloride obtained with replicate injections of

standard preparation.

WS = Weight of Phenylephrine Hydrochloride working standard in mg.

P = Potency of Phenylephrine Hydrochloride working standard in % on as such basis.

LC = Label claim of Phenylephrine Hydrochloride in mg.

Limit: Chlorphenamine Maleate: Not less than 85.0% and not more than 115.0% of the average value.

Phenylephrine Hydrochloride: Not less than 85.0% and not more than 115.0% of the average value.

Result: HPLC Graph and validated XL sheet attached.

Observation: Conforms: Does not conform:

Analyst: Date: 13/04/2020

12.0 Related substances:

HPLC ID: ST/QC/EQ/D23 Calibration due date: 06/05/2020

Column ID : QC/CL/ 201013

Reference: In-house Procedure: By HPLC

Chemicals/Reagents/Standards:

Chlorphenamine maleate

: Working standard

Phenylephrine hydrochloride

: Working standard

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G10206301	A.R.No.	SFP1c/0631	15/2020
STP No	ROA No	Revision No.	Effective date	Page No:
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Caffeine

: Working standard

Paracetamol

: Working standard

Potassium Di-hydrogen orthophosphate

HPLC grade

Acetonitrile

HPLC grade

Orthophosphoric acid

AR grade

Methanol

: HPLC grade

Purified water

: Milli-Q water or equivalent

Chromatographic Conditions:

Column

Kromasil C8 (250 mm X 4.6 mm), 5µm (or) equivalent

Wave length

: 220 nm

Column Temperature

30°C

Flow Rate

: 1.0 mL/min

Injection Volume

: 20 µl

Run time

15 minutes for Standard solution 40 minutes for Blank, System suitability

solution, placebo solution and Sample solution

About 3.5 minutes for Chlorphenamine maleate,

Retention time

about 4.1 minutes for Phenylephrine Hydrochloride,

about 8.4 minutes for Paracetamol and about 20.5 minutes for Caffeine

Preparation of Buffer:

Weigh accurately about 6.8g of potassium Di-hydrogen orthophosphate in 1000 mL of purified water, sonicate to dissolve. Adjust pH 3.0 ± 0.05 with Orthophosphoric acid. Filter through 0.45 μ membrane filter.

Preparation of Mobile phase:

Prepare a degassed mixture of buffer and methanol in the ratio 85:15 v/v.

Preparation of Diluent:

Prepare a degassed mixture of water and methanol in the ratio 80:20 v/v.

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Date: 11/03/NO



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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD 2003 D1	A.R.No.	SFP1e 1003	45/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	14 of 25

1	Preparation of Placebo solution:
,	Weigh accurately and transfer about 57.70 (55 mg) of Plain placebo into (100mL) volumetric
1	flask. Add 50 mL of diluent and sonicate for 10 minutes with intermittent shaking. Cool and make up to volume with
(diluent and mix. Further dilute
t	through 0.45µ PVDF filter.
	Preparation of Standard solution:
1	Weigh accurately and transfer about 60 ag) of Paracetamol working standard (W.S.No. / Valid upto
2	15 10 12 12 10 10 10 10 10
	sonicate to dissolve. Make up to volume with diluent and mix. Dilute (1mL) of this solution to
1.	100 mL) with diluent and mix. Further dilute to (5mL) of above solution into
	(50 mL) with diluent and mix.
	Preparation of system suitability stock solution:
1	Weigh accurately and transfer about 179,95mg (180mg) of Caffeine working standard (W.S.No. / Valid upto
	vsm しゅしり / いんり2620) and 12-03 mg (12mg) of Chlororphenamine maleate working standard
	(W.S.No. / Valid upto WS A 19/01 / 14/09/2020) and 30'53mg (30mg) of Phenylepheine hydrochloride
	working standard (W.S.No. / Valid upto \(\frac{\sqrt{10} \text{ 10} \text{ 10} \text{ 10} \text{ 13} \text{ 11} \text{ 2020}\) into a \(\frac{\text{ 10}}{\text{ 10}}\) (100 mL) volumetric
	flask. Add 50 mL of diluent and sonicate to dissolve. Make up to volume with diluent and mix.
	Preparation of system suitability solution:
	Weigh accurately and transfer about 30 mg of Paracetamol working standard into a 100 mL volumetric flask. Add 1 mL of system suitability standard stock solution and 50 mL of diluent and sonicate to dissolve. Make up to volume
	with diluent and mix.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	610200301	A.R.No.	SFP10100345/2020	
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	15 of 25

Test preparation:

Weigh accurately 20 tablets and make powder by using mortar and pestle. Weigh and transfer sample powder equivalent to 300 mg of Paracetamol 30 mg (381mg) of sample, into a 100 mg (100 mL) volumetric flask. Add about 50 mL of diluent and sonicate for 10 minutes with intermittent shaking dilute up to the volume with diluent and mix. Further dilute 10 (10 mL) of above solution into 100 mL) with diluent. Filter through 0.45µ PVDF filter.

Inject 20 μ L of the above solution (blank, system suitability solution, standard, placebo and sample) as per following sequence and measure the area due to any unknown impurity peak.

Injection sequence:

S. No	Sample Name	No. of injections
1	Diluent (blank)	1.
2	System suitability solution	1
3	Standard solution	5
4	Placebo Preparation	1
5	Test preparation	1
6	Bracketing standard	1

Calculation:

Single maximum unknown impurity:

Where,

ATI = Area of peak due to Single maximum unknown impurity in test preparation.

AST = Average area of peak due to Paracetamol in standard preparation.

WS = Weight of Paracetamol working standard in mg.

WT = Weight of sample taken in mg.

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	G1D200301	A.R.No.	SEP12/06345/2020		
STP No	ROA No	Revision No.	Effective date	Page No:	
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	16 of 25	

AW

Average weight of tablet in mg.

Potency of Paracetamol working standard in % on as such basis.

Total impurities:

$$= \frac{\mathsf{ATT}}{\mathsf{AST}} \times \frac{\mathsf{WS}}{\mathsf{100}} \times \frac{1}{\mathsf{100}} \times \frac{\mathsf{5}}{\mathsf{100}} \times \frac{\mathsf{100}}{\mathsf{50}} \times \frac{\mathsf{100}}{\mathsf{WT}} \times \frac{\mathsf{100}}{\mathsf{100}} \times \frac{\mathsf{P}}{\mathsf{100}} \times \frac{\mathsf{100}}{\mathsf{500}} \times \frac{\mathsf{P}}{\mathsf{100}} \times \frac{\mathsf{100}}{\mathsf{500}} \times \frac{\mathsf{P}}{\mathsf{100}} \times \frac{\mathsf{P}}{\mathsf{P}} \times \frac{\mathsf{P}}{\mathsf{100}} \times \frac{\mathsf{P}}{\mathsf{P}} \times \frac{\mathsf{P}}{$$

Where,

ATT

Area of peak due to Total impurities in test preparation.

Average area of peak due to Paracetamol in standard preparation.

WS

Weight of Paracetamol working standard in mg.

WT

Weight of sample taken in mg.

AW

Average weight of tablet in mg.

P

Potency of Paracetamol working standard in % on as such basis.

Single maximum unknown impurity: (NMT 0.20%)

$$= \frac{2129}{25278} \times \frac{60.28}{100} \times \frac{1}{100} \times \frac{5}{50} \times \frac{100}{281.0} \times \frac{100}{100} \times \frac{43.7}{500} \times \frac{100}{500} \times \frac{635.7}{500} = \frac{0.02}{\%}$$

Total impurities: (NMT 0.50%)

$$=\frac{3550}{25272} \times \frac{60.28}{100} \times \frac{1}{100} \times \frac{5}{50} \times \frac{100}{281.0} \times \frac{100}{100} \times \frac{99.7}{100} \times \frac{100}{500} \times \frac{635.7}{500} = 0.02$$

Result:

Limit:

Single maximum unknown impurity: 0 6 27.

Single maximum unknown impurity: Not more than 0.2%

Total impurities: 0 031,

Total impurities: Not more than 0.5%

Observation: Conforms: Does not conform:

Analyst;

Date: 15/04/2020

Checked by :

Date: 1x 104 2520

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Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD200301	A.R.No.	SFP1C10634	15/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	17 of 25

13.0 Assay:

Balance ID: ST/QC/EQ/ 04)

Calibration due date: 06/05/2020

Calibration due date: 26/07/2020

Column ID : QC/CL/ 20/00 8

Reference: In-House Procedure: By HPLC

Note: For reagents, buffer preparation, Diluent, Mobile phase-A, Mobile phase-B, Chromatographic conditions and Gradient program proceed as directed in dissolution Test.

Preparation of Standard stock solution:

Weigh accurately and transfer about 31° 92 mg (32mg) of Chlorphenamine maleate Working standard (W.S.No. / Valid upto \(\frac{\sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{2} \sqrt{2} \cdot \), \(\frac{\cdot 92 mg}{79 \cdot 73 mg}\) (80mg) of Phenylephrine Hydrochloride working standard (W.S.No. / Valid upto \(\frac{\sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{2} \sqrt{2} \cdot \)) and \(\frac{24 \sqrt{1} \sqrt{2} mg}{2}\) (24mg) of Caffeine working standard (W.S.No. / Valid upto \(\frac{\sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{1} \sqrt{2} \sqrt{2} \cdot \)) into a \(\frac{260}{260}\) (200 mL) volumetric flask. Add 120 mL of diluent and sonicate to dissolve. Make up to volume with diluent and mix.

Preparation of Standard solution:

Weigh accurately and transfer about 19-92 mg (20mg) of Paracetamol working standard (W.S.No. / Valid upto WS | 107-101 / 20107-12126) into a 200 (200 mL) volumetric flask. Add 120 mL of diluent and sonicate to dissolve. Add 10 mL of standard stock solution (Chlorphenamine, Phenylephrine and Caffeine) and make up to volume with diluent and mix.

Test preparation:

Preparation of Sample Solution-A: (For Chlorphenamine maleate and Phenylephrine Hydrochloride)

Weigh accurately 20 tablets and make powder by using morter and pestle. Weigh and transfer sample powder equivalent to 500 mg of Paracetamol 635°0 (635mg), into a 250 (250 mL) volumetric flask. Add about 170 mL of diluent and sonicate for 30 minutes with intermittent shaking. Make up to the volume with diluent and mix and Centrifuge this solution at 3000rpm for 10minutes.

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and	-46/09/2000

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Format No:	: ST/QC/058(R1):A1				1		



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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD 200301	1D20030) A.R.No. SEPICIOOS		5/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	18 of 25

Preparation of Sample Solution-B: (For Paracetamol and Caffeine)

Further dilute (5mL) of above solution to (100mL) with diluent and mix.

Procedure:

Inject the solutions as mentioned below and measure the responses of the peaks due to Paracetamol, Phenylephrine Hydrochloride, Chlorphenamine maleate, Caffeine.

Injection sequence:

S. No	Sample Name	No. of injections
1	Diluent (blank)	- 1
2	Standard preparation	5
3	Sample solution-A	2
4	Sample solution-B	2
5	Bracketing standard	1

System suitability:

Theoretical plate count

: NLT 2000 for Paracetamol, Phenylephrine

Chlorphenamine maleate, Caffeine peak.

: NMT 2.0 for Paracetamol, Phenylephrine Hydrochloride,

Chlorphenamine maleate, Caffeine peak.

Relative standard deviation : NMT 2.0% for five replicate injections of Paracetamol, Phenylephrine

Hydrochloride, Chlorphenamine maleate, Caffeine peak.

Calculations:

Tailing factor

Calculate the assay of Chlorphenamine maleate in mg/tablet as follows:

Where,

AT = Average area of peak due to Chlorphenamine maleate in Sample solution A.

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Date:

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Date: 11/03/10

Hydrochloride,



Puducherry

RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD200301 A.R.No. SFP12			45/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	19 of 25

AS Average area of peak due to Chlorphenamine maleate in standard preparation. =

WS Weight of Chlorphenamine maleate working standard in mg.

WT Weight of sample taken in mg.

Average weight of tablet in mg. AW

Potency of Chlorphenamine maleate working standard in % on as such basis.

Calculate the assay of Chlorphenamine maleate in % as follows:

LC = Label claim of Chlorphenamine maleate in mg/tablet.

System suitability:

Theoretical Plates

: <u>87889</u> (Not less than 2000)

Tailing factor

: _/*/4) __ (Not more than 2.0%)

Relative standard deviation : ________ (Not more than 2.0%)

Standard and Sample Chromatogram value:

Average peak area of Chlorphenamine maleate standard preparation: 215368

Sample Chromatogram value:

1.205732 ,2.206286 Avg. value 206009

Calculate the assay of Chlorphenamine maleate in mg/tablet as follows:

 $\frac{206009}{215368} \xrightarrow{31.92} \xrightarrow{10} \xrightarrow{10} \times \frac{250}{6350} \times \frac{99.70}{100} \times \frac{63577}{100} = \frac{1.90}{100} \text{ mg}$

Checked by : ()

Date (: 204/2020

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Date:

02/03/2020

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD200361	A.R.No.	SFP16/00345/2021	
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	20 of 25

Calculate the assay of Chlorphenamine maleate in % as follows:

$$=\frac{1.90}{2}$$
 × 100 = $\frac{95.9}{2}$ %

Calculate the assay of Phenylephrine Hydrochloride in mg/tablet as follows:

Where,

AT Average area of peak due to Phenylephrine Hydrochloride in Sample solution A.

AS Average area of peak due to Phenylephrine Hydrochloride in standard preparation.

Weight of Phenylephrine Hydrochloride working standard in mg. WS

WT Weight of sample taken in mg.

AW Average weight of tablet in mg.

Potency of Phenylephrine Hydrochloride working standard in % on as such basis.

Calculate the assay of Phenylephrine Hydrochloride in % as follows:

LC = Label claim of Phenylephrine Hydrochloride in mg/tablet.

System suitability:

Theoretical Plates : <u>6634</u> (Not less than 2000)

: 1.103 (Not more than 2.0%) Tailing factor

Relative standard deviation : $0^2 285$ (Not more than 2.0%)

Checked by :

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02/03/2020

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	610200301	A.R.No.	SFP12/0034	5/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	21 of 25

Standard and Sample Chromatogram value:

Average peak area of Phenylephrine Hydrochloride standard preparation: 268886

Sample Chromatogram value:

1. 264853 , 2. 264172 Avg. value 264513

Calculate the assay of Phenylephrine Hydrochloride in mg/tablet as follows:

 $\frac{2645/3}{26886} \times \frac{7973}{200} \times \frac{10}{200} \times \frac{250}{6350} \times \frac{9930}{100} \times \frac{6357}{100} = \frac{4.87}{100} \text{ mg}$

Calculate the assay of Phenylephrine Hydrochloride in % as follows:

$$=\frac{4.87}{5}$$
 × 100 = 97.5 %

Calculate the assay of Caffeine in mg/tablet as follows:

Where,

AT = Average area of peak due to Caffeine in Sample solution B.

AS = Average area of peak due to Caffeine in standard preparation.

WS = Weight of Caffeine working standard in mg.

WT = Weight of sample taken in mg.

AW = Average weight of tablet in mg.

P = Potency of Caffeine working standard in % on as such basis.

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Format No: ST/QC/058(R1):A1

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02/03/2020

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Date: 1/03/00



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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD200301	A.R.No.	SFP/C 10034	5/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	22 of 25

Calculate the assay of Caffeine in % as follows:

LC = Label claim of Caffeine in mg/tablet.

System suitability:

Theoretical Plates

: 93961 (Not less than (2000)

Tailing factor

: 1-166 (Not more than 2.0%)

Relative standard deviation : 0, 2894. (Not more than 2.0%)

Standard and Sample Chromatogram value:

Average peak area of Caffeine standard preparation: 265077

Sample Chromatogram value:

1.259013 ,2. 258993 Avg. value 259003

Calculate the assay of Caffeine in mg/tablet as follows:

$$\frac{259003}{265077} \times \frac{24.43}{200} \times \frac{10}{200} \times \frac{250}{635.0} \times \frac{100}{5} \times \frac{635.7}{100} \times \frac{635.7}{100} = \frac{29.60}{100} \text{ mg}$$

Calculate the assay of Caffeine in % as follows:

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Date : 104 2020

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Date:

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	GD 200301	A.R.No.	SFP1 C10034	15/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	23 of 25

Calculate the assay of Paracetamol in mg/tablet as follows:

Where,

AT = Average area of peak due to Paracetamol in Sample solution B.

AS = Average area of peak due to Paracetamol in standard preparation.

WS = Weight of Paracetamol working standard in mg.

WT = Weight of sample taken in mg.

AW = Average weight of tablet in mg.

Potency of Paracetamol working standard in % on as such basis.

Calculate the assay of Paracetamol in % as follows:

LC = Label claim of Paracetamol in mg/tablet

System suitability:

Theoretical Plates : 126518 (Not less than (2000)

Tailing factor : 1.430 (Not more than 2.0%)

Relative standard deviation : 0'079 (Not more than 2.0%)

Standard and Sample Chromatogram value:

Average peak area of Paracetamol standard preparation: 3017 628

Checked by: Date 18 04/2020

Date:

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	60200301	A.R.No.	SFP12/00341	5/2020
STP No	ROA No	Revision No.	Effective date	Page No:
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	24 of 25

Sample Chromatogram value:

Calculate the assay of Paracetamol in mg/tablet as follows:

$$\frac{2981427}{3017628} \times \frac{19.92}{200} \times \frac{250}{635} \times \frac{100}{5} \times \frac{99.70}{100} \times \frac{635.7}{100} = \frac{491.09}{100} \text{ mg}$$

Calculate the assay of Paracetamol in % as follows:

$$= \frac{491.09}{500} \times 100 = \frac{98.2}{\%}$$

Limit: Chlorphenamine Maleate: 90.0% to 110.0% of the labeled claim I.e. 1.8mg to 2.2mg

Phenylephrine Hydrochloride: 90.0% to 110.0% of the labeled claim I.e. 4.5mg to 5.5mg

Caffeine: 90.0% to 110.0% of the labeled claim I.e. 27.0mg to 33.0mg

Paracetamol: 90.0% to 110.0% of the labeled claim I.e. 450.0mg to 550.0mg

Observation: Conforms: Does not conform:

Analyst: Date: 13 104 12020

Checked by: Date: 504/2070

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Date: 1/03/No

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RECORD OF ANALYSIS

Name of Product: LITACOLD FLU

(Chlorphenamine Maleate 2mg, Phenylephrine Hydrochloride 5mg, Caffeine 30mg and Paracetamol 500mg)- Compressed Tablets

Batch No/Lot No.	(1D20030)	A.R.No.	SFP/c/003	SFP/C/0034 5/2020			
STP No	ROA No	Revision No.	Effective date	Page No:			
IMTL00117-00	ROA/ IML00117-00	00	03-03-2020	25 of 25			

14.0 ANALYTICAL REPORT VERIFICATION CHECK LIST:

Check the following details and enclosures in the report. If the details are available then put \checkmark mark on the remarks column and put \ast mark if the details are not available

S.No:	DETAILS	Remarks
1	TRF is enclosed with the protocol	107
2	Product name, B.No, Mfg date, Exp date, A.R.No matches with TRF	or or
3	All the tests are performed as per standard specification	07
4	All the sheets are page numbered, signed and dated by analyst	487
5	The protocol is duly filled, no blank place, calculations and entries are ok	b 7
6	The printouts of UV-VIS spectrophotometer readings are enclosed	Ø
7	The spectrum of IR spectrophotometer is enclosed	央
8	All HPLC chromatograms are enclosed	97
9	Other instruments sheets (if applicable, then specify in comments column)	97
10	Public laboratory reports (if applicable, then specify the reasons below)	R
11	Comments (if any): Weigh Balance. printowd Sheet is enclosed "x" mark is not applicable for this product.	

Remarks:	The	report	is	found	to	be	satisfact	ory	6/	not	satisfactor	у 🗆
								120		-	Can.	

Checked by: Date: 5/04/2070

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Sign:	Morrol	Date:	02/03/2020	Sign:	D Ohn	Date: 11/02/0

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Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

Product Name : LITACOLD FLU Batch size : 10.0 LAC GD200301 Mar-20 Batch Number : Mfg.Date : Stage UNCOATED TABLET Exp.Date : Feb-23

Each Uncoated tablet contains:

Chlorphenamine Maleate BP -----Phenylephrine Hydrochloride BP --Caffeine (anhydrous) BP ----Paracetamol BP --

RELATED SUBSTANCE OF PARACETAMOL

Instrument ID:	ndard dilution.: 60.28 mg		Balance ID:	ST/QC/EC	Q/041	WS No.:	WS/A/07/01	% Purity (ail
Standard dilution.:	60.28	mg to>	100	ml to>	1	ml to>	100	
Std.conc (in ppm)-0.6028	5	ml to>	50	ml to>	1	ml to>	1	
Test dilution .:	381.00	mg to>	100	ml to>	10	ml to>	100	
Test.conc (in ppm)-299.669	1	ml to>	1	ml to>	1	ml to>	1	

Conversion factor :	1.0000	
Labelled content :	500	m
Average weight :	635.7	m

System suitability	1	2	3	4	5	6	MEAN	5.D	RSD in %
Paracetamol	25166	25326	25256	25289	25306	25326	25278	60.9	0.241
With Bracketing std.							25278	60.9	0.241

Name of the Peaks	RT	RRT	Individual Impurity Peak areas	Maximum Impurity Area
UNKNOWN Imp.	2.853		2128	2128
UNKNOWN Imp.	4.536		910	
UNKNOWN Imp.	15.844		512	
UNKNOWN Imp.				
UNKNOWN Imp.				
UNKNOWN Imp.				
UNKNOWN Imp.	1111			
UNKNOWN Imp.				
Total Impurit	y Area		3550	

SINGLE MAXIMUM UNKNOWN IMPURTIY

Limit: NMT 0.20%

99.7

2128

Calculation formula : Any individual impurity

Max.impurity area \times Std.dilution X Purity % (aib) \times conversion factor \times avg.weight \times 100 Standard area \times sample dilution $\,$ X Label claim \times 100

25278

TOTAL IMPURITIES

0.02 Limit: NMT 0.50%

> 3550 25278

Calculation formula : Total impurities in%

Total impurity area \times Std.dilution X Purity % (aib)x conversion factor \times avg.weight \times 100 Standard area \times sample dilution $\,$ X Label claim \times 100

0.03

Analysed by :

Date:

15.04.2020

Checked by :



Plot No. A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry- 605 107

Quality control Department

< Sample Information >

Acquired by

Sample Name

: LITACOLD FLU

Sample ID

: BLANK-RS

Tray# Vail#

: 2

Injection Volume Data Filename

: 20 uL

Method Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS-SPL-01.lcd

Batch Filename

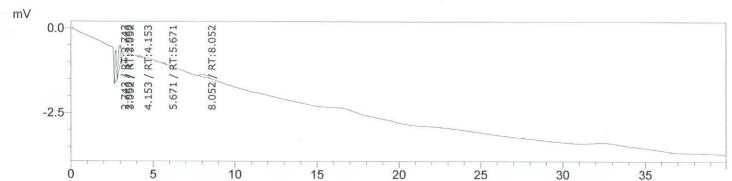
: LITACOLD FLU-TAB-RS_SPL.lcm 08042020 LITACOLD FLU-TAB-301-304-RS.lcb

Report Filename

Default.lcr

Date Acquired Data Processed : 08/04/2020 2:57:19 : 13/04/2020 11:25:44

< Chromatogram >



1 Det.A Ch1 / 220nm

< Peak Table >

PeakTable

Ret. Time	Area	Area %	Resolution	ive Retention	Tailing Factor	heoretical Plate	Name
2.743	5764	35.619	0.000	0.000	0.978	4189.472	RT:2.743
2.960	5398	33.354	0.949	0.000	0.000	1689.333	RT:2.960
3.052	2114	13.063	0.193	0.000	0.000	326.446	RT:3.052
4.153	467	2.887	2.464	0.000	3.133	5841.226	RT:4.153
5.671	255	1.573	7.250	0.000	1.427	12676.733	RT:5.671
8.052	2185	13.503	5.077	0.000	1.305	1911.771	RT:8.052
	16183	100.000					

Checked by

min



Plot No. A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry- 605 107

Quality control Department

< Sample Information >

Acquired by

Sample Name

: LITACOLD FLU : BLANK-RS

Sample ID

: 2

Tray# Vail#

: 1

Injection Volume

: 20 uL

Data Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS-SPL-02.lcd

Method Filename Batch Filename

: LITACOLD FLU-TAB-RS_SPL.lcm

Report Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS.lcb

Date Acquired

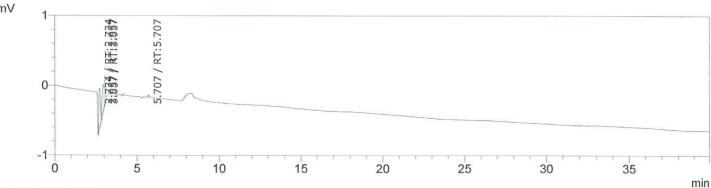
: Default.lcr : 08/04/2020 3:38:09

Data Processed

: 13/04/2020 11:28:21

< Chromatogram >





1 Det.A Ch1 / 220nm

< Peak Table >

PeakTable

Detector A Ch1 220nm

Ret. Time	Area	Area %	Resolution	ive Retention	Tailing Factor	heoretical Plate	Name
2.734	3948	43.502	0.000	0.000	0.000	3577.025	RT:2.734
2.957	3034	33.431	0.919	0.000	0.000	1529.518	RT:2.957
3.057	1864	20.544	0.393	0.000	0.000	3565.468	RT:3.057
5.707	229	2.522	13.264	0.000	1.623	13735.054	RT:5.707
	9074	100.000					^

Analysed by

Date

Checked by 2/04/2020



Plot No. A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry- 605 107

Quality control Department

< Sample Information >

Acquired by

Sample Name

: LITACOLD FLU

Sample ID

: SYSTEM SUITABILITY SOLUTION

Tray#

: 2

Vail#

: 2

Injection Volume Data Filename

: 20 uL

Method Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS-SPL-03.lcd

Batch Filename

: LITACOLD FLU-TAB-RS SPL.lcm

Report Filename

08042020 LITACOLD FLU-TAB-301-304-RS.lcb

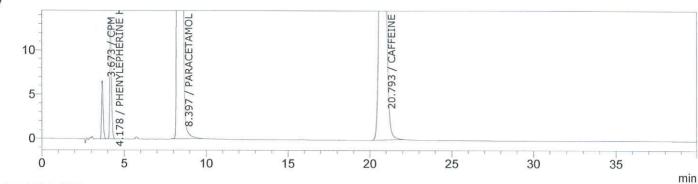
: Default.lcr

Date Acquired **Data Processed** : 08/04/2020 4:18:59

: 13/04/2020 11:30:34

< Chromatogram >

mV



1 Det.A Ch1 / 220nm

< Peak Table >

Detector A Ch 1 220

PeakTable

Ret. Time	Area	Area %	Resolution	ive Retention	Tailing Factor	heoretical Plate	Name
3.673	42541	0.324	0.000	0.000	1.345	6569.865	CPM
4.178	97387	0.743	2.673	0.000	1.269	7240.342	PHENYLEPHERINE HCI
8.397	11852580	90.406	17.134	0.000	1.103	12874.615	PARACETAMOL
20.793	1117820	8.526	26.635	0.000	1.095	17167.130	CAFFEINE
	13110328	100.000					^

Analysed by

Date

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they low



Plot No. A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry- 605 107

Quality control Department

Sample Information

Acquired by

: Admin

Sample Name

: LITACOLD FLU

Sample ID

: PARACETAMOL-RS-STD-01

Tray# Vail#

: 2

Injection Volume

: 20 uL

Data Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS-SPL-04.lcd : LITACOLD FLU-TAB-RS STD.lcm

Method Filename Batch Filename

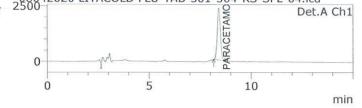
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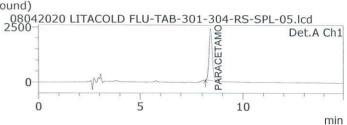
Report Filename

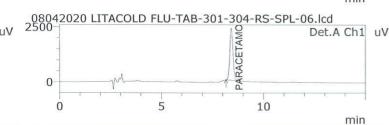
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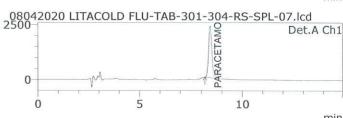
Date Acquired Data Processed : 08/04/2020 4:59:47 : 13/04/2020 11:41:14

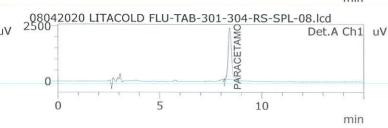
Summary(Compound)
08042020 LITACOLD FLU-TAB-301-304-RS-SPL-04.lcd 08008042020 LITACOLD FLU-TAB-301-304-RS-SPL-04.lcd 0800804200 LITACOLD FLU-TAB-301-304-RS-SPL-04.lcd 080080420 LITACOLD FLU-TAB-301-8-104-8-1

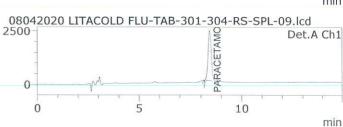












<< Detector A >>

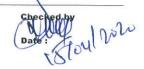
ID#1 Compound Name: PARACETAMOL

Vial#	Title	Sample ID	Ret. Time	Area	T. Plate	T.Factor
3	301-304-RS-SPL-04.lcd	PARACETAMOL-RS-STD-01	8.424	25166	13296.32	1.057
3	301-304-RS-SPL-05.lcd	PARACETAMOL-RS-STD-02	8.427	25326	13356.39	1.055
3	301-304-RS-SPL-06.lcd	PARACETAMOL-RS-STD-03	8.431	25256	13390.65	1.058
3	301-304-RS-SPL-07.lcd	PARACETAMOL-RS-STD-04	8.432	25289	13356.03	1.059
3	301-304-RS-SPL-08.lcd	PARACETAMOL-RS-STD-05	8.435	25306	13328.81	1.053
3	301-304-RS-SPL-09.lcd	PARACETAMOL-RS-STD-06	8.435	25326	13358.69	1.055
	Average		8.431	25278	13347.81	1.056
	%RSD		0.051	0.241	0.239	0.208

Analysed by

Date:

POX 202





Plot No. A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry- 605 107

Quality control Department

< Sample Information >

Acquired by

Sample Name

: LITACOLD FLU : PLIAN PLACEBO

Sample ID

: 2

Tray# Vail#

: 4

Injection Volume

: 20 uL

Data Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS-SPL-10.lcd

Method Filename Batch Filename

: LITACOLD FLU-TAB-RS_SPL.lcm : 08042020 LITACOLD FLU-TAB-301-304-RS.lcb

Report Filename

: Default.lcr

Date Acquired

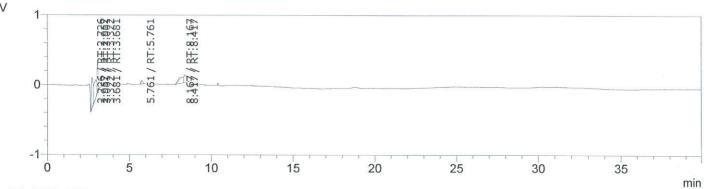
: 08/04/2020 6:34:35

Data Processed

: 13/04/2020 11:46:35

< Chromatogram >





1 Det.A Ch1 / 220nm

< Peak Table >

PeakTable

Detector A	Ch1	220nm	

Ret. Time	Area	Area %	Resolution	ive Retention	Tailing Factor	heoretical Plate	Name
2.726	3074	24.137	0.000	0.000	0.000	1761.995	RT:2.726
2.952	2982	23.420	0.297	0.000	0.000	86.890	RT:2.952
3.061	2206	17.324	0.154	0.000	0.000	6490.079	RT:3.061
3.322	781	6.130	1.290	0.000	1.068	2770.316	RT:3.322
3.681	323	2.539	1.683	0.000	1.381	7160.477	RT:3.681
5.761	392	3.079	10.714	0.000	1.310	11559.954	RT:5.761
8.167	1730	13.585	0.225	0.000	0.000	2.376	RT:8.167
8.417	1246	9.786	0.023	0.000	0.000	5201.247	RT:8.417
	12734	100.000					

Date Date



Plot No. A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry- 605 107

Quality control Department

< Sample Information >

Acquired by

: Admin

Sample Name

: LITACOLD FLU

Sample ID

: LITACOLD FLU-TAB-301-RS-SPL

Tray#

: 2

Vail#

: 5

Injection Volume

Data Filename

: 20 uL

Method Filename

: 08042020 LITACOLD FLU-TAB-301-304-RS-SPL-11.lcd

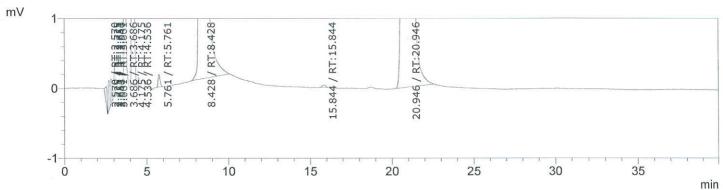
: LITACOLD FLU-TAB-RS SPL.lcm : 08042020 LITACOLD FLU-TAB-301-304-RS.lcb

Batch Filename Report Filename

: Default.lcr

Date Acquired **Data Processed** : 08/04/2020 7:23:22 : 13/04/2020 12:28:17

< Chromatogram >



1 Det.A Ch1 / 220nm

< Peak Table >

PeakTable

Ret. Time	Area	Area %	Resolution	ive Retention	Tailing Factor	heoretical Plate	Name
2.570	₹1830	0.014	0.000	0.000	0.764	2551.553	RT:2.570
2.725	2882	0.023	0.652	0.000	0.000	1585.867	RT:2.725
2.853	√ 2128	0.017	0.372	0.000	0.000	756.281	RT:2.853
2.946	₩ 468	0.012	0.000	0.000	0.000	0.000	RT:2.946
3.061	1852	0.015	0.000	0.000	0.000	6599.029	RT:3.061
3.686	× 38830	0.305	3.764	0.000	1.371	6614.952	RT:3.686 CPY1 RT:4.175 phenyl epheme H RT:4.536
4.175	* 83985	0.659	2.580	0.000	1.260	7127.576	RT:4.175 premy experie H
4.536	9 10	0.007	1.737	0.000	1.270	6940.364	RT:4.536
5.761	L1493	0.012	5.479	0.000	1.312		No. of the contract of the con
8.428	• 11498387	90.267	10.155	0.000	1.103	12954.313	RT:8.428 parsher anno
15.844	✓ 512	0.004	20.113	0.000	1.276	20632.518	RT:15.844
20.946	• 1103881	8.666	9.455	0.000	1.100	17251.268	RT:20.946 Caffeere
	12738157	100.000					00

Analysed by 🕡

Date

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Checked



Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

Product Name : LITACOLD-FLU 10.0 LAC Batch size : Batch Number: GD200301 Mfg.Date: Mar-20 UNCOATED TABLET Stage Feb-23 Exp.Date :

Each Uncoated tablet contains:

Chlorphenamine Maleate BP ----- 2mg Phenylephrine Hydrochloride BP ----- 5mg Caffeine (anhydrous) BP ----- 30mg Paracetamol BP -----

DICCOLUTION	OF PHENYLEPHRINE HYDROCHLORIDE

Instrument ID:	ST/QC/EQ/045	Balance ID:	ST/QC/EQ/041	WS No.:	WS/A/11/01	% Purity (aib)	99.30

Dissolution medium :	pH 6.8 Phosphate buffer
Volume (ml)	900
Time & Speed	45 minutes & 75RPM
Limit	Not less than 80.0%

Standard dilution.:	67.97	mg to>	250	ml to>	4	ml to>	200
Std.conc (in ppm)-5.4376	1	ml to>	1	ml to>	1	ml to>	1

Test dilution .:	One tablet	mg to>	900	ml to>	1	ml to>	1
Test.conc (in ppm)-5.55555	1	ml to>	1	ml to>	1	ml to>	1

Conversion factor :	1.0000	
Labelled claim ;	5	mg

System suitability	1	2	3	4	5	MEAN	S.D	RSD in %
Phenylephrine Hcl	135468	135514	135134	135257	135053	135285	202.1	0.149
With Bracketing std.	134526	133554				134929	689.3	0.511

The September 1	Stage - S	1			Stage	- 52	
Tablets	Sample area	Drug release in mg/tablet	Drug Release in %	Tablets	Sample area	Drug release in mg/tablet	Drug Release in 9
Unit-1	134502	4.83	96.63	Unit-1		0.00	0.00
Unit-2	133219	4.79	95.71	Unit-2		0.00	0.00
Unit-3	135030	4.85	97.01	Unit-3		0.00	0.00
Unit-4	133926	4.81	96.22	Unit-4		0.00	0.00
Unit-5	132413	4.76	95.13	Unit-5		0.00	0.00
Unit-6	132708	4.77	95.34	Unit-6	====-	0.00	0.00
	Average	8.1	96.0		Average		
	Std.Dev		0.74		Std. Dev		0.00
	% RSD		0.77		% RSD		#DIV/0!
	Minimum		95.1		Minimum		0.0
			97.0		Maximum		0.0

Calculation formula :

Drug release in mg/tablet	Sample area \times Std.dilution \times Purity %(aib) \times conversion factor
or ug release in hig / labler	Standard area × sample dilution × 100

Drug release in mg /tablet \times 100 Drug release in % Labeled claim

Analysed by:

11.04.2020 Date:

Checked by Date:

Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

Product Name:	LITACOLD-FLU	Batch size :	10.0 LAC
Batch Number :	GD200301	Mfg.Date :	Mar-20
Stage :	UNCOATED TABLET	Exp.Date :	Feb-23

Each Uncoated tablet contains:

Chlorphenamine Maleate BP ----- 2mg Phenylephrine Hydrochloride BP ----- 5mg Caffeine (anhydrous) BP ----- 30mg Paracetamol BP ----- 500mg

		DISSOLUT	ION OF CHLORPHENAMIN	E MALEATE
netwowent The	ST/OC/FO/O4E	0.01	aT 10 4 15 0 16 11	Les resources

Workload Warranty (alb)	Instrument ID:	ST/QC/EQ/045	Balance ID:	ST/QC/EQ/041	WS No.:	WS/A/09/01	% Purity (aib)	99.70
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Dissolution medium :	pH 6.8 Phosphate buffer	
Volume (ml)	900	
Time & Speed	45 minutes & 75RPM	
Limit	Not less than 80.0%	

Standard dilution.:	27.92	mg to>	250	ml to>	4	ml to>	200
Std.conc (in ppm)-2.2336	1	ml to>	1	ml to>	1	ml to>	1

Test dilution .:	One tablet	mg to>	900	ml to>	1	ml to>	1
Test.conc (in ppm)-2.22222	1	ml to>	1	ml to>	1	ml to>	1

1.0000	
2	m
	1.0000

System suitability	1	2	3	4	5	MEAN	5.D	RSD in %
Chlorphenamine maleate	67669	66728	67259	67313	67111	67216	341.2	0.508
With Bracketing std.	67238	67342				67237	282.5	0.420

	Stage - S	1			Stage	- 52	
Tablets	Sample area	Drug release in mg/tablet	Drug Release in	Tablets	Sample area	Drug release in mg/tablet	Drug Release in 9
Unit-1	63700	1.90	94.97	Unit-1		0.00	0.00
Unit-2	63682	1.90	94.94	Unit-2		0.00	0.00
Unit-3	61137	1.82	91.15	Unit-3		0.00	0.00
Unit-4	62738	1.87	93.53	Unit-4		0.00	0.00
Unit-5	58948	1.76	87.88	Unit-5		0.00	0.00
Unit-6	62439	1.86	93.09	Unit-6		0.00	0.00
	Average		92.6		Average		
	Std.Dev		2.70		Std.Dev		0.00
	% RSD		2.92		% RSD		#DIV/0!
	Minimum		87.9		Minimum		0.0
			95.0		Maximum		0.0

Calculation formula :

Sample area x Std.dilution $X\,$ Purity %(aib) x conversion factor Drug release in mg/tablet Standard area x sample dilution X 100

Drug release in %	Drug release in mg /tablet x 100
orug release in %	Labeled claim

Analysed by:

Date:

11.04.2020

(o)

Safetab Life Science,

Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

Product Name: LITACOLD-FLU Batch size: 10.0 LAC

Batch Number: GD200301 Mfg.Date: Mar-20

Stage: UNCOATED TABLET Exp.Date: Feb-23

Each Uncoated tablet contains:

Chlorphenamine Maleate BP ----- 2mg
Phenylephrine Hydrochloride BP ---- 5mg
Caffeine (anhydrous) BP ---- 30mg
Paracetamol BP ---- 500mg

	OF PARACETAMOL	

	CALL CONTRACTOR OF THE PARTY OF							
Instrume	ent ID:	ST/QC/EQ/045	Balance ID:	ST/QC/EQ/041	W5 No.:	WS/A/07/01	% Purity (aib)	99.70

900			
5RPM			
0.0%			
3			

Standard dilution.:	21.69	mg to>	200	ml to>	1	ml to>	1
Std.conc (in ppm)-108.45	1	ml to>	1	ml to>	1	ml to>	1

Test dilution .:	One tablet	mg to>	900	ml to>	10	ml to>	50
Test.conc (in ppm)-111.1111	1	ml to>	1	ml to>	1	ml to>	1

Conversion factor :	1.0000	
Labelled claim ;	500	mg

System suitability	1	2	3	4	5	MEAN	S.D	RSD in %
Paracetamol	3409313	3410373	3412346	3411601	3410388	3410804	1182.7	0.035
With Bracketing std.	3404459	3397472				3407993	5296.1	0.155

	Stage - S	1		Stage - S2				
Tablets	Sample area	Drug release in mg/tablet	Drug Release in	Tablets	Sample area	Drug release in mg/tablet	Drug Release in %	
Unit-1	3826157	545.81	109.16	Unit-1		0.00	0.00	
Unit-2	3467869	494.70	98.94	Unit-2		0.00	0.00	
Unit-3	3489426	497.78	99.56	Unit-3		0.00	0.00	
Unit-4	3459332	493.48	98.70	Unit-4		0.00	0.00	
Unit-5	3413343	486.92	97.38	Unit-5		0.00	0.00	
Unit-6	3439862	490.71	98.14	Unit-6		0.00	0.00	
	Average		100.3		Average	,	0.0	
	Std.Dev		4.40		Std.Dev		0.00	
	% RSD		4.38		% RSD		#DIV/OI	
	Minimum		97.4		Minimum		0.0	
			109.2		Maximum		0.0	

Calculation formula :

Drug release in mg /tablet

Sample area × Std.dilution × Purity %(aib) × conversion factor

Standard area × sample dilution × 100

Drug release in % Drug release in mg /tablet x 100

Labeled claim

Analysed by :

Date:

11.04.2020

Checked by Down

Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

Product Name: LITACOLD-FLU Batch size: 10.0 LAC GD200301 Batch Number: Mfg.Date : Mar-20 UNCOATED TABLET Stage Exp.Date : Feb-23

Each Uncoated tablet contains:

Chlorphenamine Maleate BP ----- 2mg Phenylephrine Hydrochloride BP ----- 5mg Caffeine (anhydrous) BP ----- 30mg Paracetamol BP ----

DISSOLU	TION	OF	CAFFEINE
DISSOLU	17014	0.	CLII I FTIAF

projection of the state of the			DISSOLUTION OF CHITEINE				
Instrument ID:	ST/QC/EQ/045	Balance ID:	ST/QC/EQ/041	WS No.:	WS/A/09/04	% Purity (aib)	99.10

Dissolution medium :	pH6.8 Phosphate buffer			
Volume (ml)	900			
Time & Speed	45 minutes & 75RPM			
Limit	Not less than 80.0%			

Standard dilution.:	82.99	mg to>	250	ml to>	4	ml to>	200
Std.conc (in ppm)-6.6392	1	ml to>	1	ml to>	1	ml to>	1

Test dilution .:	One tablet	mg to>	900	ml to>	10	ml to>	50
Test.conc (in ppm)-6.66666	1	ml to>	1	ml to>	1	ml to>	1

Conversion factor :	1.0000	
Labelled claim ;	30	m

System suitability	1	2	3	4	5	MEAN	S.D	RSD in %
Caffeine	311848	311704	312357	311725	311617	311850	295.1	0.095
With Bracketing std.	312249	310420				311703	632.6	0.203

	Stage - S	1			Stage	- 52	
Tablets	Sample area	Drug release in mg/tablet	Drug Release in %	Tablets	Sample area	Drug release in mg/tablet	Drug Release in 9
Unit-1	348050	33.04	110.15	Unit-1		0.00	0.00
Unit-2	311555	29.58	98.60	Unit-2		0.00	0.00
Unit-3	315666	29.97	99.90	Unit-3		0.00	0.00
Unit-4	312305	29.65	98.84	Unit-4		0.00	0.00
Unit-5	316844	30.08	100.27	Unit-5		0.00	0.00
Unit-6	312588	29.68	98.93	Unit-6		0.00	0.00
	Average	**	101.1		Average		33.7
	Std.Dev		4.47		Std. Dev		0.00
	% RSD		4.43	% RSD			0.00
Minimum			98.6	Minimum			0.0
	Maximum		110.1	Ma×imum			0.0
							1

Calculation formula :

Sample area \times Std.dilution \times Purity %(aib) \times conversion factor Drug release in mg /tablet Standard area x sample dilution X 100

Drug release in mg /tablet x 100 Drug release in % Labeled claim

Analysed by : Date:

C.K.SARAVANAN 11.04.2020

Checked by Date:



Puducherry- 605 107

Quality control Department

<Sample Information>

Acquired by Sample Name

: C.K.Saravanan : LITACOLD FLU : DILUENT-DS

Sample ID Data Filename Method Filename

: 08042020 LITACOLD FLU-TAB-301-304-DS-SPL-01.lcd : PARA+CPM+CAFFEINE+PHENYL_AHPL_DS_STD_P.lcm

Batch Filename

08042020 LITACOLD FLU-TAB-301-304-DS.lcb

Vial#

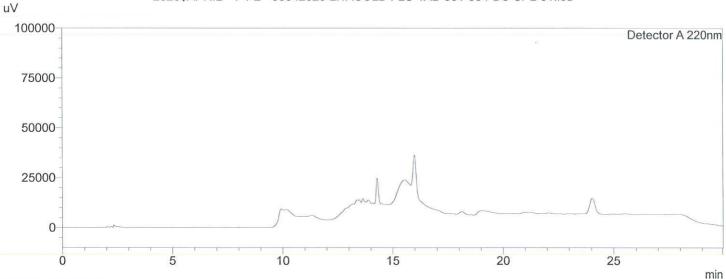
: 1-1 : 20 uL

Injection Volume Date Acquired Date Processed

: 4/8/2020 1:42:09 AM : 4/10/2020 4:39:08 PM

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2020\$APRIL - 1-1-2 - 08042020 LITACOLD FLU-TAB-301-304-DS-SPL-01.lcd



<Peak Table>

Detector A 220nm						
Peak# Ret. Time	Area	Area%	T.Plate	T.Factor	Resolution R.R.Tim	e Name
Total						

Analysed By
Date:

Checked By
Date: The Low

Page: 1/1



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name Sample ID

C.K.Saravanan LITACOLD FLU

PHEN+PARA+CAFF+CPM-DS-STD-01

Tray# Vial#

12 20

Injection Volume Data File Method File

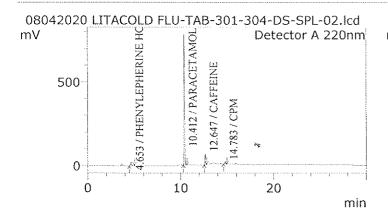
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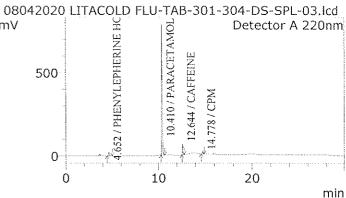
Batch File Report Format File

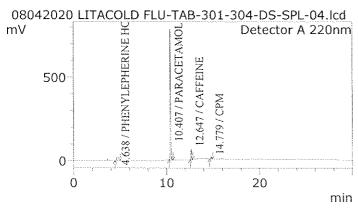
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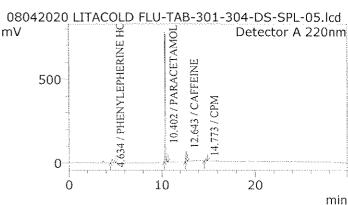
Date Acquired Date Processed

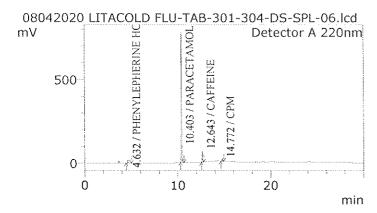
4/8/2020 2:12:47 AM 4/10/2020 4:39:08 PM











<< Detector A >>

ID#1 Compound Name: PHENYLEPHERINE HCL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	DS-SPL-02.lcd	PHEN+PARA+CAFF+CPM-DS-STD-01	4.653	135468	9646	1.179
2	DS-SPL-03.lcd	PHEN+PARA+CAFF+CPM-DS-STD-02	4.652	135514	9673	1.178
2	DS-SPL-04.lcd	PHEN+PARA+CAFF+CPM-DS-STD-03	4.638	135134	9599	1.180
2	DS-SPL-05.lcd	PHEN+PARA+CAFF+CPM-DS-STD-04	4.634	135257	9639	1.179
2	DS-SPL-06.lcd	PHEN+PARA+CAFF+CPM-DS-STD-05	4.632	135053	9625	1.181
	Average		4.642	135285	9636	1.180
	%RSD		0.214	0.149	0.282	0.093

ID#2 Compound Name: PARACETAMOL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	DS-SPL-02.lcd	PHEN+PARA+CAFF+CPM-DS-STD-01	10.412	3409313	103081	1.249
2	DS-SPL-03.lcd	PHEN+PARA+CAFF+CPM-DS-STD-02	10.410	3410373	100670	1.254
2	DS-SPL-04.lcd	PHEN+PARA+CAFF+CPM-DS-STD-03	10.407	3412346	100467	1.248
2	DS-SPL-05.lcd	PHEN+PARA+CAFF+CPM-DS-STD-04	10.402	3411601	102314	1.250
2	DS-SPL-06.lcd	PHEN+PARA+CAFF+CPM-DS-STD-05	10.403	3410388	102374	1.250
	Average		10.407	3410804	101781	1.250
	%RSD		0.040	0.035	1.130	0.158

ID#3 Compound Name: CAFFEINE

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	DS-SPL-02.lcd	PHEN+PARA+CAFF+CPM-DS-STD-01	12.647	311848	127245	1.173
2	DS-SPL-03.lcd	PHEN+PARA+CAFF+CPM-DS-STD-02	12.644	311704	126980	1.181
2	DS-SPL-04.lcd	PHEN+PARA+CAFF+CPM-DS-STD-03	12.647	312357	126908	1.174
2	DS-SPL-05.lcd	PHEN+PARA+CAFF+CPM-DS-STD-04	12.643	311725	125919	1.180
2	DS-SPL-06.lcd	PHEN+PARA+CAFF+CPM-DS-STD-05	12.643	311617	125866	1.180
	Average		12.645	311850	126584	1.178
	%RSD		0.015	0.095	0.508	0.324

ID#4 Compound Name: CPM

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	DS-SPL-02.lcd	PHEN+PARA+CAFF+CPM-DS-STD-01	14.783	67669	98594	1.082
2	DS-SPL-03.lcd	PHEN+PARA+CAFF+CPM-DS-STD-02	14.778	66728	99212	1.089
2	DS-SPL-04.lcd	PHEN+PARA+CAFF+CPM-DS-STD-03	14.779	67259	98177	1.093
2	DS-SPL-05.lcd	PHEN+PARA+CAFF+CPM-DS-STD-04	14.773	67313	98536	1.091
2	DS-SPL-06.lcd	PHEN+PARA+CAFF+CPM-DS-STD-05	14.772	67111	98625	1.095
	Average		14.777	67216	98629	1.090
	%RSD		0.030	0.507	0.378	0.450

Analysed By

Date:

Checked By

Page: 2/2



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name

C.K.Saravanan LITACOLD FLU

Sample ID Tray#

LITACOLD FLU-T-01-PH+C-DS-SPL-1

Vial#

1 3 20

Injection Volume Dáta File

Method File

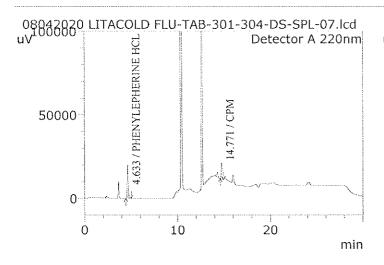
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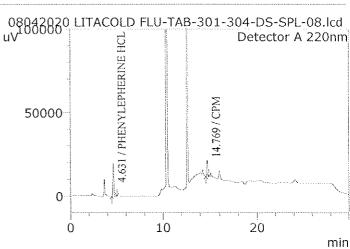
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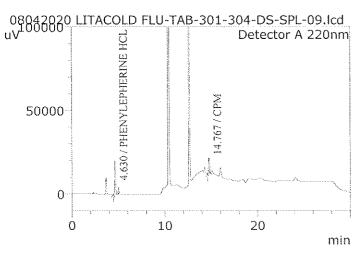
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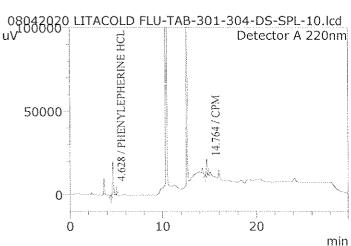
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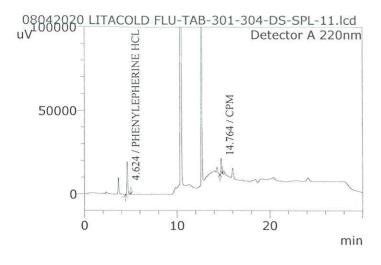
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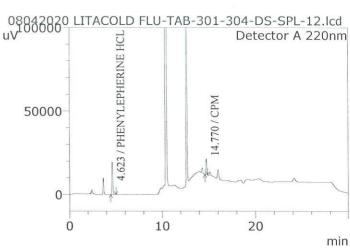












<< Detector A >>

ID#1 Compound Name: PHENYLEPHERINE HCL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
3	DS-SPL-07.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-1	4.633	134502	9732	1.178
4	DS-SPL-08.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-2	4.631	133219	9716	1.180
5	DS-SPL-09.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-3	4.630	135030	9675	1.181
6	DS-SPL-10.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-4	4.628	133926	9701	1.177
7	DS-SPL-11.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-5	4.624	132413	9695	1.178
8	DS-SPL-12.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-6	4.623	132708	9705	1.180
	Average		4.628	133633	9704	1.179
	%RSD		0.084	0.771	0.199	0.126

ID#2 Compound Name: CPM

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
3	DS-SPL-07.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-1	14.771	63700	99901	1.080
4	DS-SPL-08.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-2	14.769	63682	100255	1.071
5	DS-SPL-09.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-3	14.767	61137	103732	1.046
6	DS-SPL-10.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-4	14.764	62738	101519	1.069
7	DS-SPL-11.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-5	14.764	58948	106844	1.025
8	DS-SPL-12.lcd	LITACOLD FLU-T-01-PH+C-DS-SPL-6	14.770	62439	101088	1.069
	Average		14.768	62107	102223	1.060
	%RSD		0.021	2.921	2.576	1.917

Analysed By 😥

Date:

Checked By

Date My Pouldon



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name Sample ID

C.K.Saravanan LITACOLD FLU

LITACOLD FLU-T-01-P+CA-DS-SPL-1

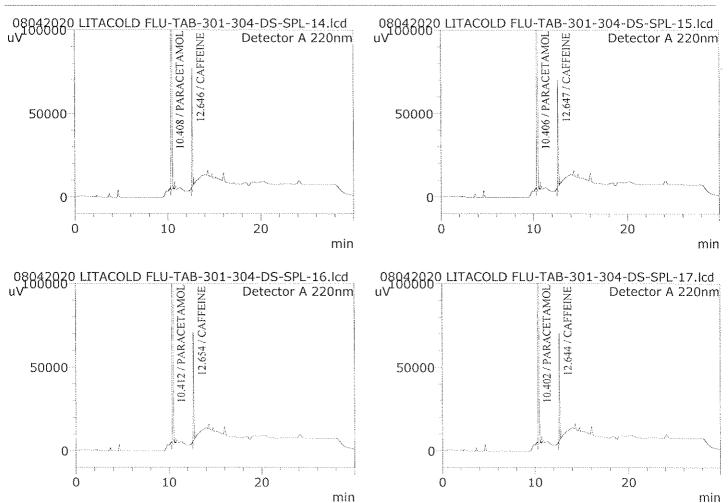
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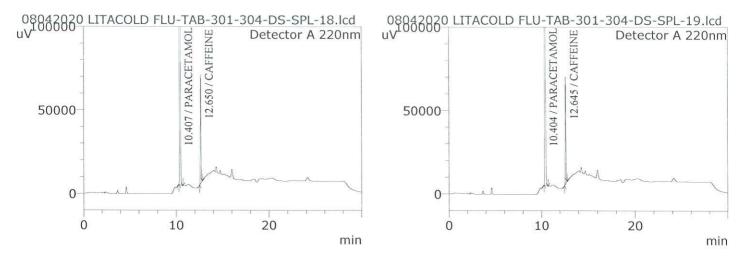
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DEFAULT.Isr Report Format File

4/8/2020 8:20:28 AM Date Acquired Date Processed : 4/10/2020 4:56:20 PM





<< Detector A >>

ID#1 Compound Name: PARACETAMOL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
9	DS-SPL-14.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-1	10.408	3826157	100177	1.251
10	DS-SPL-15.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-2	10.406	3467869	99532	1.248
11	DS-SPL-16.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-3	10.412	3489426	105135	1.250
12	DS-SPL-17.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-4	10.402	3459332	101977	1.249
13	DS-SPL-18.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-5	10.407	3413343	99935	1.248
14	DS-SPL-19.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-6	10.404	3439862	102210	1.250
	Average		10.407	3515998	101494	1.249
	%RSD		0.034	4.383	2.068	0.091

ID#2 Compound Name: CAFFEINE

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
9	DS-SPL-14.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-1	12.646	348050	126164	1.174
10	DS-SPL-15.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-2	12.647	311555	126167	1.173
11	DS-SPL-16.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-3	12.654	315666	126795	1.176
12	DS-SPL-17.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-4	12.644	312305	126088	1.178
13	DS-SPL-18.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-5	12.650	316844	126829	1.173
14	DS-SPL-19.lcd	LITACOLD FLU-T-01-P+CA-DS-SPL-6	12.645	312588	125845	1.178
	Average		12.648	319501	126315	1.175
	%RSD		0.030	4.425	0.319	0.208

Analysed By

Date:

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Puducherry- 605 107

Quality control Department

<Sample Information>

Acquired by Sample Name : C.K.Saravanan LITACOLD FLU

Sample ID

PHEN+PARA+CAFF+CPM-DS-BKT-01

Data Filename : 08042020 LITACOLD FLU-TAB-301-304-DS-SPL-13.lcd Method Filename : PARA+CPM+CAFFEINE+PHENYL_AHPL_DS_STD_P.lcm

Batch Filename

: 08042020 LITACOLD FLU-TAB-301-304-DS.lcb

Vial#

1-2 : 20 uL

Injection Volume

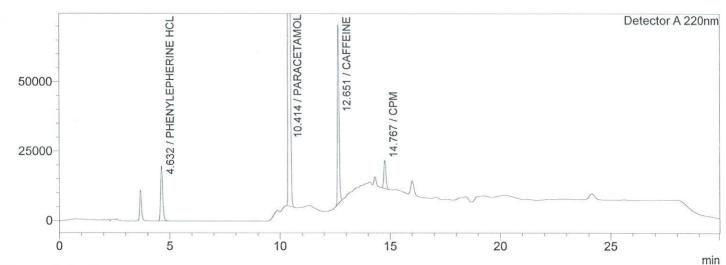
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2020\$APRIL - 1-13-2 - 08042020 LITACOLD FLU-TAB-301-304-DS-SPL-13.lcd

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<Peak Table>

Detecto	or A 220nm							
Peak#	Ret. Time	Area	Area%	T.Plate	T.Factor	Resolution	R.R.Time	Name
1	4.632	134526	3.433	9627	1.181			PHENYLEPHERINE HCL
2	10.414	3404459	86.882	99457	1.248	36.03		PARACETAMOL
3	12.651	312249	7.969	125351	1.176	16.27		CAFFEINE
4	14.767	67238	1.716	99197	1.100	12.81		CPM
Total		3918472	100.000					

Analysed By Date:

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Page: 1/1



Puducherry- 605 107

Quality control Department

<Sample Information>

Acquired by Sample Name : C.K.Saravanan : LITACOLD FLU

Sample ID

PHEN+PARA+CAFF+CPM-DS-BKT-02

Data Filename

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Batch Filename

08042020 LITACOLD FLU-TAB-301-304-DS.lcb

Vial#

20 uL

Injection Volume

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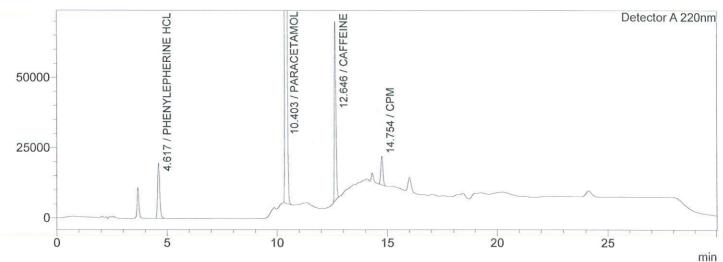
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2020\$APRIL - 1-20-2 - 08042020 LITACOLD FLU-TAB-301-304-DS-SPL-20.lcd





<Peak Table>

Peak#	Ret. Time	Area	Area%	T.Plate	T.Factor	Resolution	R.R.Time	Name
1	4.617	133554	3.417	9603	1.178			PHENYLEPHERINE HCL
2	10.403	3397472	86.919	101993	1.250	36.30		PARACETAMOL
3	12.646	310420	7.942	126470	1.179	16.45		CAFFEINE
4	14.754	67342	1.723	98627	1.102	12.77		CPM
Total		3908789	100.000					

Analysed By

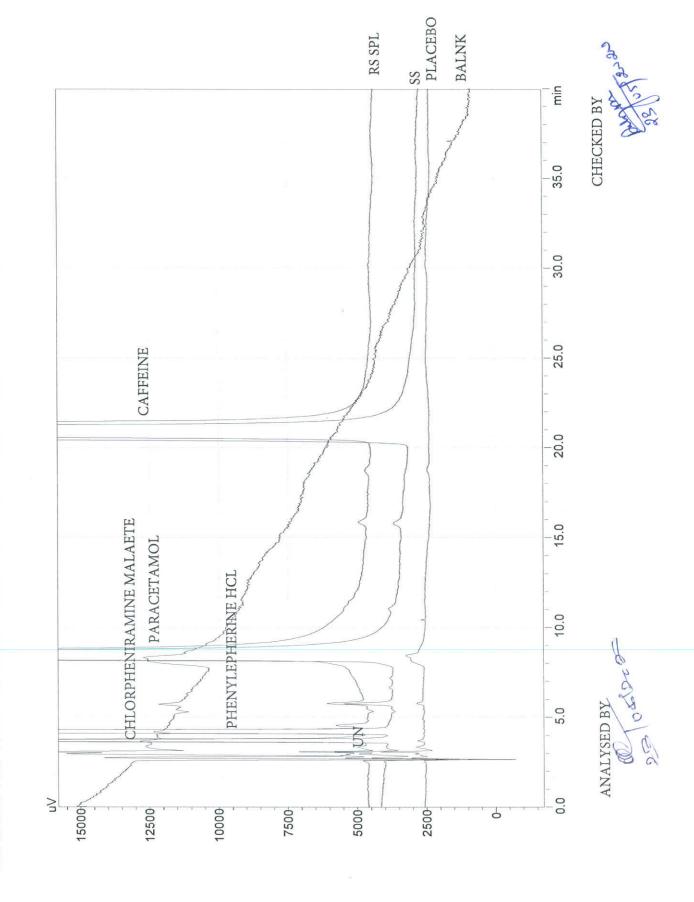
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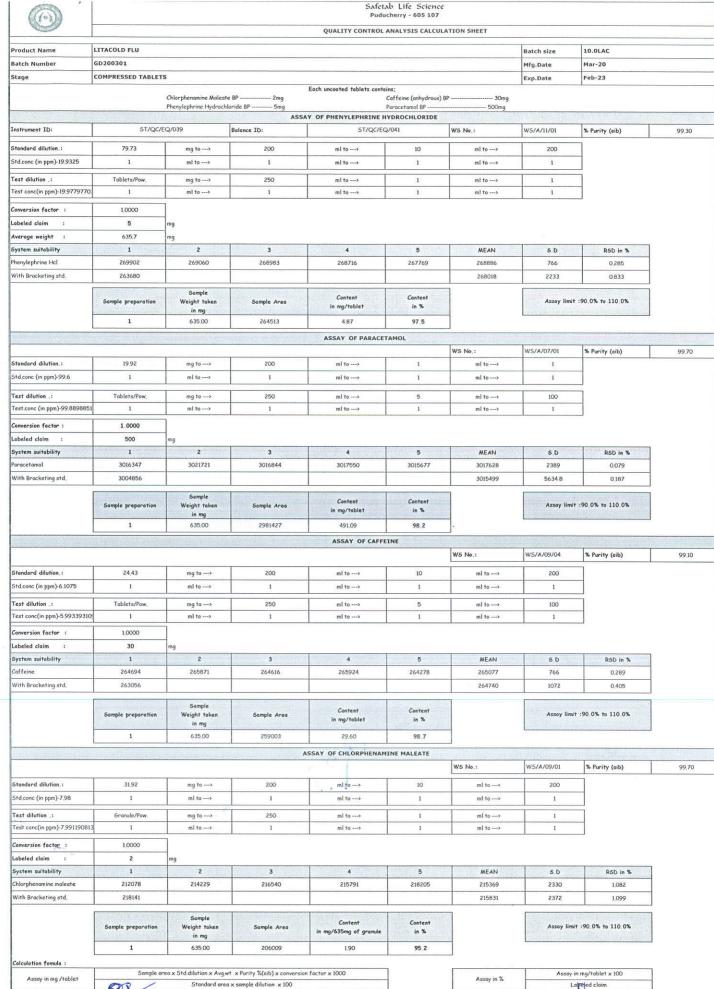
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LITACOLD FLU-TABLETS-GD200301-RELATED SUBSTANCES COMPARISION-REPORT





Analysed by Date:

13.04.2020



Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

Product Name :	LITACOLD FLU	Batch size :	10.0LAC
Batch Number :	GD200301	Mfg.Date :	Mar-20
Stage :	COMPRESSED TABLETS	Exp.Date :	Feb-23

Each uncoated tablets contains;

Chlorphenamine Maleate BP ----- 2mg Phenylephrine Hydrochloride BP ----- 5mg

Caffeine (anhydrous) BP ------ 30mg Paracetamol BP ----- 500mg

UNIFORMITY	CONTENT	OF PHEY	LEPHRINE	HCL

Instrument ID: ST/QC/EQ/039 Balance ID: ST/QC/EQ/41 WS No.: WS/A/11/01 % Purity (aib) 99.30	_	T		Γ				
	Instrument ID:	ST/QC/EQ/039	Balance ID:	ST/QC/EQ/41	WS No.:	W5/A/11/01	% Purity (aib)	99.30

Standard dilution.:	79.73	mg to>	200	ml to>	10	ml to>	200
5td.conc (in ppm)-19.9325	1	ml to>	1	ml to>	1	ml to>	1
ord.conc (in ppm)-19.9325	1	mi to>	1	mi to>	1	mi to>	

Test dilution .:	One tablet	to>	100	ml to>	10	ml to>	25
Test.conc (in ppm)-20	1	ml to>	1	ml to>	1	ml to>	1

Conversion factor :	1.0000	
Labelled claim :	5	

System suitability	1	2	3	4	5	MEAN	S.D	RSD in %
Phenylephrine Hydrochloride	269902	269060	268983	268716	267769	268886	766	0.28
With Bracketing std.	260817					267541	3365	1.26

Tablets	Sample Area	Uniformity Content in mg/tablet	Uniformity content in %	Tablets	Sample Area	Uniformity Content in mg/tablet	Uniformity content			
1	258594	4.76	95.18	6	255592	4.70	94.07			
2	259278	4.77	95.43	7	269426	4.96	99.16			
3	256673	4.72	94.47	8	256802	4.73	94.52			
4	259838	4.78	95.63	9	257751	4.74	94.87			
5	256279	4.72	94.32	10	256442	4.72	94.38			
	Average									
	Minimum									
	Maximum									

Uniformity content Limit: 85.0% to 115.0%

Calculation formula :

Uniformity Content in mg	Sample area \times Std.dilution \times Purity %(aib) \times conversion factor	
/tablet	Standard area x sample dilution X 100	

Uniformity content in %	Uniformity content in mg /tablets × 100
Onitor mity content in %	Labeled claim

Analysed by :

C.R.SARAVANAN

Date:

13.04.2020

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Safetab Life Science,

Puducherry - 605 107

QUALITY CONTROL ANALYSIS CALCULATION SHEET

 Product Name :
 LITACOLD FLU
 Batch size :
 10.0LAC

 Batch Number :
 GD200301
 Mfg.Date :
 Mar-20

 Stage :
 COMPRESSED TABLETS
 Exp.Date :
 Feb-23

Each uncoated tablets contains;

Chlorphenamine Maleate BP ----- 2mg Phenylephrine Hydrochloride BP ----- 5mg Caffeine (anhydrous) BP ----- 30mg Paracetamol BP ----- 500mg

UNIFORMITY CONTENT OF CHLORPHENAMINE MALEATE

Instrument ID:	ST/QC/EQ/039	Balance ID:	ST/QC/EQ/41	WS No.:	WS/A/09/01	% Purity (aib)	99.70
----------------	--------------	-------------	-------------	---------	------------	----------------	-------

Standard dilution.:	31.92	mg to>	200	ml to>	10	ml to>	200
Std.conc (in ppm)-7.98	1	ml to>	1	ml to>	1	ml to>	1

Test dilution .:	One tablet	to>	100	ml to>	10	ml to>	25
Test.conc (in ppm)-8	1	ml to>	1	ml to>	1	ml to>	1

Conversion factor :	1.0000	
Labelled claim :	2	

System suitability	1	2	3	4	5	MEAN	S.D	RSD in %
Chlorphenamine Maleate	212078	214229	216540	215791	218205	215369	2330	1.08
With Bracketing std.	219470		ir Elxis eresiteitei		seinani muu per	216052	2674	1.24

Tablets	Sample Area	Uniformity Content in mg/tablet	Uniformity content in %	Tablets	Sample Area	Uniformity Content in mg/tablet	Uniformity conten
1	210808	1.95	97.34	6	208825	1.93	96.43
2	209923	1.94	96.94	7	217229	2.01	100.31
3	207977	1.92	96.04	8	210635	1.95	97.26
4	210345	1.94	97.13	9	209846	1.94	96.90
5	209746	1.94	96.85	10	210548	1.94	97.22
			Average				97.2
			Minimum				96.0
			Maximum				100.3

Uniformity content Limit: 85.0% to 115.0%

Calculation formula :

Uniformity Content in	Sample area \times Std.dilution \times Purity %(aib) \times conversion factor
mg /tablet	Standard area × sample dilution × 100

Uniformity content in %	Uniformity content in mg /tablets \times 100
Omformity content in 78	Labeled claim

Analysed by :

C.K.SARAVANAN

Date:

13.04.2020

Checked To Duly Lou 2000



Puducherry- 605 107

Quality control Department

<Sample Information>

Acquired by Sample Name C.K.Saravanan LITACOLD FLU **BLANK-AS**

Sample ID Data Filename

07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-01.lcd

Batch Filename

Method Filename: LITACOLD FLU-AHPL-METHOD -AS STD P.lcm 07042020 LITA COLD FLU-TAB-301-304-AS&CU.lcb

Vial#

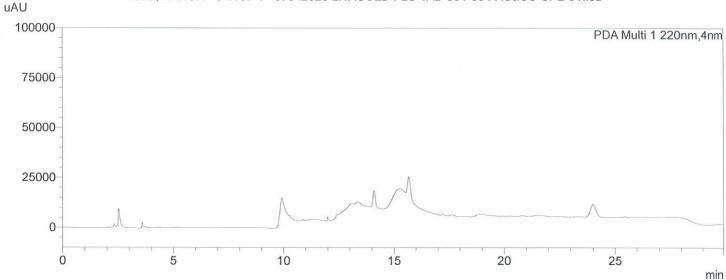
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Injection Volume Date Acquired **Date Processed**

: 07/04/2020 23:26:26 : 11/04/2020 15:03:58

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2020\$MARCH - 9-1137-4 - 07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-01.lcd



<Peak Table>

PDA C	h1 22	20nm							
Peak#	Ret.	Time	Area	Area%	T.Plate	T.Factor	Resolution	R.R.Time	Name
Total									

Checked By
Date: Wy Jour Date

Page: 1/1



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name Sample ID C.K.Saravanan LITACOLD FLU

PHE+PARA+CAFF+CPM-AS-STD-01

Tray# Vial#

: 1 : 2 : 20

Injection Volume : 2 Data File : 0

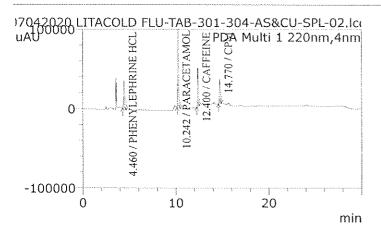
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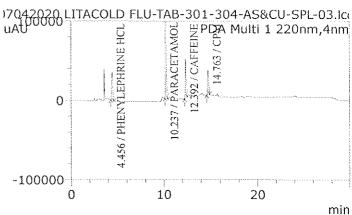
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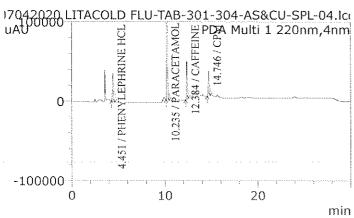
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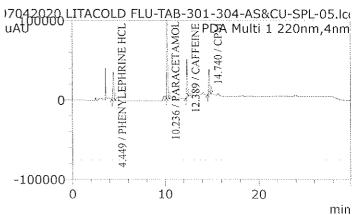
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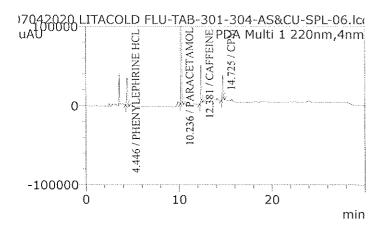
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<< PDA >>

ID#1 Compound Name: PHENYLEPHRINE HCL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	CU-SPL-02.lcd	PHE+PARA+CAFF+CPM-AS-STD-01	4.460	269902	6626	1.101
2	CU-SPL-03.lcd	PHE+PARA+CAFF+CPM-AS-STD-02	4.456	269060	6640	1.105
2	CU-SPL-04.lcd	PHE+PARA+CAFF+CPM-AS-STD-03	4.451	268983	6643	1.103
2	CU-SPL-05.lcd	PHE+PARA+CAFF+CPM-AS-STD-04	4.449	268716	6621	1.102
2	CU-SPL-06.lcd	PHE+PARA+CAFF+CPM-AS-STD-05	4.446	267769	6626 6640 6643	1.105
	Average		4.452	268886		1.103
	%RSD		0.126	0.285	0.148	0.164

ID#2 Compound Name: PARACETAMOL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	CU-SPL-02.lcd	PHE+PARA+CAFF+CPM-AS-STD-01	10.242	3016347	123374	1.407
2	CU-SPL-03.lcd	PHE+PARA+CAFF+CPM-AS-STD-02	10.237	3021721	122044	1.426
2	CU-SPL-04.lcd	PHE+PARA+CAFF+CPM-AS-STD-03	10.235	3016844	128551	1.436
2	CU-SPL-05.lcd	PHE+PARA+CAFF+CPM-AS-STD-04	10.236	3017550	129295	1.440
2	CU-SPL-06.lcd	PHE+PARA+CAFF+CPM-AS-STD-05	10.236	3015677	129327	1.441
	Average	i.	10.237	3017628	126518	1.430
	%RSD		0.027	0.079	2.784	0.990

ID#3 Compound Name: CAFFEINE

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	CU-SPL-02.lcd	PHE+PARA+CAFF+CPM-AS-STD-01	12.400	264694	99326	1.172
2	CU-SPL-03.lcd	03.lcd PHE+PARA+CAFF+CPM-AS-STD-02		265871	90846	1.164
2	CU-SPL-04.lcd	PHE+PARA+CAFF+CPM-AS-STD-03	12.384	264616	92117	1.158
2	CU-SPL-05.lcd	PHE+PARA+CAFF+CPM-AS-STD-04	12.389	265924	95854	1.168
2	CU-SPL-06.lcd	PHE+PARA+CAFF+CPM-AS-STD-05	12.381	264278	91163	1.165
	Average		12.389	265077	93861	1.166
	%RSD		0.061	0.289	3.887	0.432

ID#4 Compound Name: CPM

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
2	CU-SPL-02.lcd	PHE+PARA+CAFF+CPM-AS-STD-01	14.770	212078	88374	1.124
2	CU-SPL-03.lcd	PHE+PARA+CAFF+CPM-AS-STD-02	14.763	214229	88674	1.130
2	CU-SPL-04.lcd	PHE+PARA+CAFF+CPM-AS-STD-03	14.746	216540	87527	1.148
2	CU-SPL-05.lcd	PHE+PARA+CAFF+CPM-AS-STD-04	14.740	215791	88647	1.145
2	CU-SPL-06.lcd	PHE+PARA+CAFF+CPM-AS-STD-05	14.725	218205	86223	1.157
	Average		14.749	215368	87889	1.141
	%RSD		0.122	1.082	1.184	1.197

Checked By
Date: Cliffich Low



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name C.K.Saravanan LITACOLD FLU

Sample ID

LITA COLDFLU-CA+P-301-AS-SPL-01

Tray# Vial#

1 4 20

Injection Volume Data File

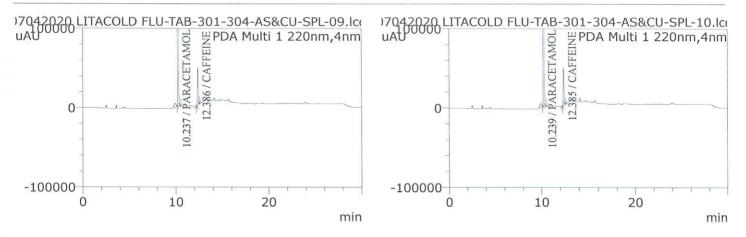
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07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-09.lcd LITACOLD FLU-AHPL-METHOD -AS_SPL-PC-P.lcm 07042020 LITA COLD FLU-TAB-301-304-AS&CU.lcb

Report Format File

DEFAULT.Isr

Date Acquired Date Processed 08/04/2020 03:30:53 11/04/2020 14:51:26



<< PDA >>

ID#1 Compound Name: PARACETAMOL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
4	CU-SPL-09.lcd	LITA COLDFLU-CA+P-301-AS-SPL-01	10.237	2982013	121729	1.425
4	CU-SPL-10.lcd	LITA COLDFLU-CA+P-301-AS-SPL-02	10.239	2980841	123380	1.413
	Average		10.238	2981427	122555	1.419
	%RSD		0.013	0.028	0.952	0.632

ID#2 Compound Name: CAFFEINE

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
4	CU-SPL-09.lcd	LITA COLDFLU-CA+P-301-AS-SPL-01	12.386	259013	91933	1.158
4	CU-SPL-10.lcd	LITA COLDFLU-CA+P-301-AS-SPL-02	12.385	258993	91974	1.156
	Average		12.385	259003	91954	1.157
	%RSD		0.006	0.006	0.031	0.104

DOL DOL **Analysed By**

Date:

Page: 1/1



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name Sample ID

C.K.Saravanan LITACOLD FLU

LITA COLDFLU-C+PH-301-AS-SPL-01

Tray# Vial#

Injection Volume

13 20

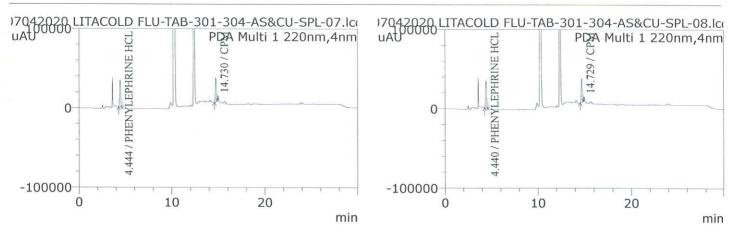
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07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-07.lcd LITACOLD FLU-AHPL-METHOD -AS_SPL-PH&CPM-P.lcm 07042020 LITA COLD FLU-TAB-301-304-AS&CU.lcb

Report Format File

DEFAULT.Isr

Date Acquired Date Processed : 08/04/2020 02:29:45 : 11/04/2020 14:26:58



<< PDA >>

ID#1 Compound Name: PHENYLEPHRINE HCL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
3	CU-SPL-07.lcd	LITA COLDFLU-C+PH-301-AS-SPL-01	4.444	264853	6672	1.109
3	CU-SPL-08.lcd	LITA COLDFLU-C+PH-301-AS-SPL-02	4.440	264172	6669	1.108
	Average		4.442	264513	6670	1.109
	%RSD		0.073	0.182	0.038	0.065

ID#2 Compound Name: CPM

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
3	CU-SPL-07.lcd	LITA COLDFLU-C+PH-301-AS-SPL-01	14.730	205732	90600	1.101
3	CU-SPL-08.lcd	LITA COLDFLU-C+PH-301-AS-SPL-02	14.729	206286	90190	1.103
	Average		14.730	206009	90395	1.102
	%RSD		0.004	0.190	0.321	0.088

Analysed By

Date:

Page: 1/1



Puducherry- 605 107

Quality control Department

Sample Information

Acquired by Sample Name

C.K.Saravanan LITACOLD FLU

Sample ID

LITACOLD FLU LITA COLDFLU-C+PH-301-CU-SPL-01

Tray# Vial#

: 1 : 11 : 20

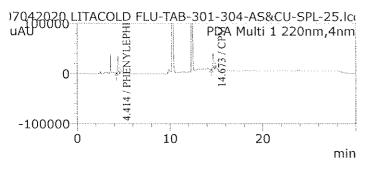
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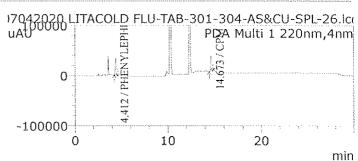
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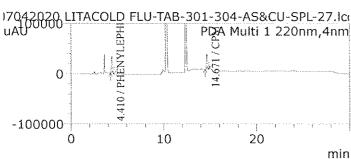
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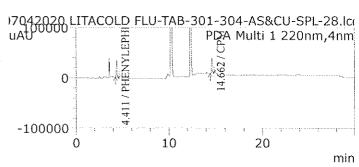
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Date Processed

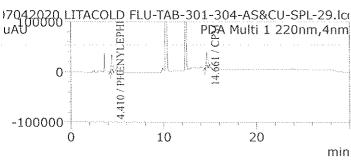
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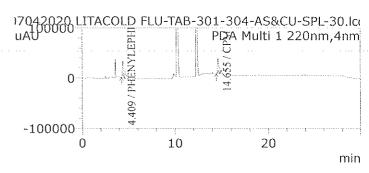


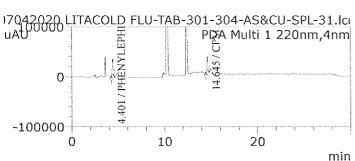


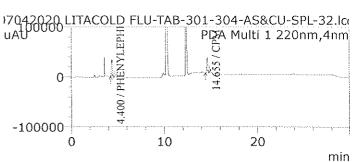


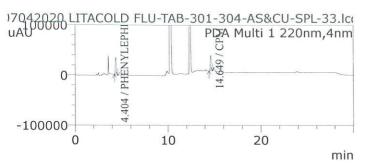


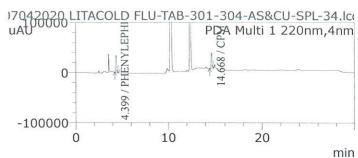












<< PDA >>

ID#1 Compound Name: PHENYLEPHRINE HCL

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
11	CU-SPL-25.lcd	LITA COLDFLU-C+PH-301-CU-SPL-01	4.414	258594	6667	1.111
12	CU-SPL-26.lcd	LITA COLDFLU-C+PH-301-CU-SPL-02	4.412	259278	6772	1.115
13	CU-SPL-27.lcd	LITA COLDFLU-C+PH-301-CU-SPL-03	4.410	256673	6751	1.115
14	CU-SPL-28.lcd	LITA COLDFLU-C+PH-301-CU-SPL-04	4.411	259838	6792	1.115
15	CU-SPL-29.lcd	LITA COLDFLU-C+PH-301-CU-SPL-05	4.410	256279	6749	1.115
16	CU-SPL-30.lcd	LITA COLDFLU-C+PH-301-CU-SPL-06	4.409	255592	6732	1.114
17	CU-SPL-31.lcd	LITA COLDFLU-C+PH-301-CU-SPL-07	4.401	269426	6710	1.112
18	CU-SPL-32.lcd	LITA COLDFLU-C+PH-301-CU-SPL-08	4.400	256802	6727	1.114
19	CU-SPL-33.lcd	LITA COLDFLU-C+PH-301-CU-SPL-09	4.404	257751	6653	1.109
20	CU-SPL-34.lcd	LITA COLDFLU-C+PH-301-CU-SPL-10	4.399	256442	6749	1.115
	Average		4.407	258667	6730	1.114
	%RSD		0.122	1.557	0.645	0.179

ID#2 Compound Name: CPM

Vial#	Title	Sample ID	R.Time	Area	T. Plate	T.Factor
11	CU-SPL-25.lcd	LITA COLDFLU-C+PH-301-CU-SPL-01	14.673	210808	88387	1.138
12	CU-SPL-26.lcd	LITA COLDFLU-C+PH-301-CU-SPL-02	14.673	209923	88368	1.139
13	CU-SPL-27.lcd	LITA COLDFLU-C+PH-301-CU-SPL-03	14.671	207977	87857	1.143
14	CU-SPL-28.lcd	LITA COLDFLU-C+PH-301-CU-SPL-04	14.662	210345	88097	1.141
15	CU-SPL-29.lcd	LITA COLDFLU-C+PH-301-CU-SPL-05	14.661	209746	87443	1.143
16	CU-SPL-30.lcd	LITA COLDFLU-C+PH-301-CU-SPL-06	14.655	208825	89558	1.140
17	CU-SPL-31.lcd	LITA COLDFLU-C+PH-301-CU-SPL-07	14.645	217229	89660	1.143
18	CU-SPL-32.lcd	LITA COLDFLU-C+PH-301-CU-SPL-08	14.655	210635	88849	1.140
19	CU-SPL-33.lcd	LITA COLDFLU-C+PH-301-CU-SPL-09	14.649	209846	89054	1.148
20	CU-SPL-34.lcd	LITA COLDFLU-C+PH-301-CU-SPL-10	14.668	210548	89804	1.143
	Average		14.661	210588	88708	1.142
	%RSD		0.068	1.183	0.912	0.258

Analysed By Date:



Puducherry- 605 107

Quality control Department

<Sample Information>

Acquired by Sample Name

: C.K.Saravanan : LITACOLD FLU

Sample ID

PHE+PARA+CAFF+CPM-AS-BKT-STD-3

Data Filename

07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-35.lcd

Method Filename Batch Filename

: LITACOLD FLU-AHPL-METHOD -AS_STD_P.lcm : 07042020 LITA COLD FLU-TAB-301-304-AS&CU.lcb

Vial #

: 1-2

Injection Volume Date Acquired : 20 uL : 08/04/2020 16:45:17

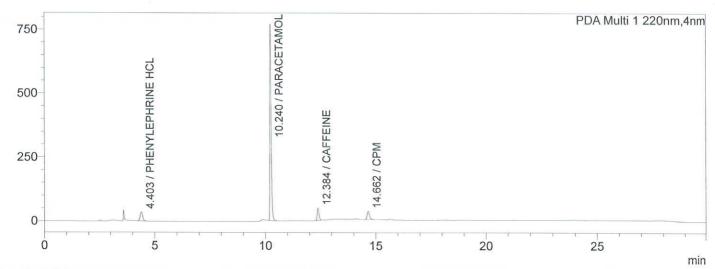
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2020\$MARCH - 9-1171-2 - 07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-35.lcd

mAU



<Peak Table>

PDA Ch1 220nm

Peak#	Ret. Time	Area	Area%	T.Plate	T.Factor	Resolution	R.R.Time	Name
1	4.403	260817	6.971	6695	1.110			PHENYLEPHRINE HCL
2	10.240	3000046	80.185	123074	1.412	35.16		PARACETAMOL
3	12.384	261074	6.978	92533	1.162	15.34		CAFFEINE
4	14.662	219470	5.866	86939	1.161	12.59		CPM
Total		3741406	100.000					

Analysed By

Checked By

Page: 1/1



Puducherry- 605 107

Quality control Department

<Sample Information>

Acquired by Sample Name : C.K.Saravanan LITACOLD FLU

Sample ID

PHE+PARA+CAFF+CPM-AS-BKT-STD-1

Data Filename

07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-15.lcd

Method Filename: Batch Filename

LITACOLD FLU-AHPL-METHOD -AS_STD_P.lcm 07042020 LITA COLD FLU-TAB-301-304-AS&CU.lcb

Vial#

1-2

Injection Volume Date Acquired

20 uL

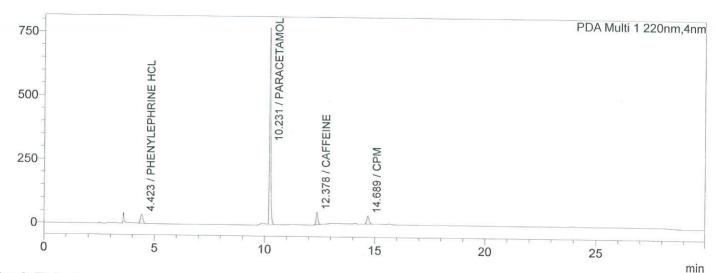
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08/04/2020 06:34:11 : 11/04/2020 15:03:51

<Chromatogram>

mAU

2020\$MARCH - 9-1151-2 - 07042020 LITACOLD FLU-TAB-301-304-AS&CU-SPL-15.lcd



<Peak Table>

Peak#	Ret. Time	Area	Area%	T.Plate	T.Factor	Resolution	R R Time	Name
1	4.423	263680	7.032	6675	1.110			PHENYLEPHRINE HCL
2	10.231	3004856	80.135	123088	1.408	34.86		PARACETAMOL
3	12.378	263056	7.015	93460	1.167	15.41		CAFFEINE
4	14.689	218141	5.817	87828	1.160	12.84		CAFFEINE
Total		3749732	100.000	0,020	1.100	12.04		CPIVI

Analysed By

Checked By

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	Safetab Life	Science	a7			
	BATCH MANUFACTU	CORD	Page No.:	60 of 62		
Brand Name	LITACOLD FLU TABLETS	Product ID	978	Batch Size	1000000 Tablets	
Generic Name:	Paracetamol, Phenylephrine Hydrochloride, Chlorphenamine Maleate and Caffeine Anhydrous Tablets	MFC NO:	ST/MFC/119/R0	Supersedes MFC No:	Nil	
Batch No.:	UD200361	Mfg.Date:	0.3/2020	Exp.Date:	02/2023	

BMR COPY/QUALITY CONTROL COPY

22.0 TEST REQUEST FORM FOR BULK TABLETS:			
From: Manufacturing Department	To: Q.A. Department		
To be filled by production Date of Mfg.: Mar. 2000 Date of exp: Feb. 2023	Sampled by :Clising Son date: \$1/05/20		
Test Request for .: Content	No. of containers :4.6		
TRF raised by 1 1 on date 31/03/2020	Sample received by : on date 2 0 3		
To be filled by QC TRF received on :3109 2000 Sample tested on O.H. O.A. 2000			
, Test R	Results		
Each fablet confeend - pheny lepherne Hel! - 4.88 rog (97. placo: Aug!-960% Mon!-95.1%, ma paracetamo!! - 491.09 rog (98.20 % Augi-1003% Mont-97.4%, Mo Caffeire! - 29160 rog (98.7%) MRCO! Aug! 101.1% Min! - 98.6%, ma apm! - 1.90 rog (85.2%)	ant - 9,7-0%. MOL- 109, DM. OL- 110,11%.		
Pelated sustances - Most armost -	0:001/ / John Isoh 0:001/		

	Prepared by:	Checked by:	Approved By:	
Designation	QA Executive /	Production Head D	QA Head /	1
Designation	Designee	Designee	Designee	200000000000000000000000000000000000000
Signature with Date	9.12/02/2020	28/01/2020	Markey Inter	NTROLLED COPY



IDEAL ANALYTICAL AND RESEARCH INSTITUTION

Plot No.1 and 2 (PT), Brindhavanam Nagar, Pazhani samy Nagar, Villianur, Puducherry-605110

CERTIFICATE OF ANALYSIS

Form 39 (Rule 150-E(f)

(As per Drugs & Cosmetics Act, 1940 and the rules made there under) Approval No. :20 30 4332

			Analytical Report N	o.: AR/2	0/05/05/025
		Ī	Da	te: 11.05	5.2020
1) Name of the manufacturer from whom sample received with manufacturing license number	Safetab Life Science, Plot No, A-68, PIPDIC Electronic Park, Thirubuvanai, Puducherry - 605 107.				
2) Reference number & date of the sample forwarding letter	3) Date of receipt of sample	f receipt of 4) Name of drug / cosmetics / raw material / final product in bulk / final product (in finished pack) as obtained from the manufacturer			
05.05.2020	05.05.2020	LITACOLD FLU TABLETS			
5) Details of drug / cosmetics / ramanufacturer as follows	aw material / final produ	uct in bulk / final	product (in finished p	ack) as obt	ained from the
a)Original manufacturer's name (in case of raw materials and drugs repacked)	b)Batch No/ Control No.	c)Batch size as represented by sample	manufacture,	e)Date of expiry, if any	f)Quantity submitted
Safetab Life Science	GD200301	10.0Lac	03/2020	02/2023	5strips

6) Results of test for analysis:

SAMPLE NOT DRAWN BY US

Description: Pale yellow colour circular shaped slightly biconvex uncoated bilayered tablet plain on both sides.

PARAMETERS	SPECIFICATIONS	RESULTS
Microbial Contamination		
Total Viable aerobic count		/
i. Bacteria	NMT1000cfu/g	80cfu/gm
ii. Fungi	NMT 100cfu/g	Found Absent
E-coli	Absent/gm	Found Absent
Salmonella	Absent/gm	Found Absent
Pseudomonas aeruginosa	Absent/gm	Found Absent
Staphylococcus aureus	Absent/gm	Found Absent

In the opinion of the undersigned, the sample referred to above is of standard quality / is not of standard quality as defined in the Act and Rules made there under for the reasons given below.

Observation: The sample complies as per IHS specifications with respect to above parameters.