

CERTIFICATE OF ANALYSIS

(Certificate No.: SPC260422 - 020 / V.01)

Analysis Date : 07/04/2026

Re-test Date: 06/04/2029

Product Name : DEOXYCHLORO FAMCICLOVIR

Chemical Name : 4-(2-Amino-9H-purin-9-yl)-2-(chloromethyl)butyl acetate

Synonyms : Famciclovir Deoxy-chloro Impurity

CAT No. : F270006

Batch Number : SL-RJS-369-028

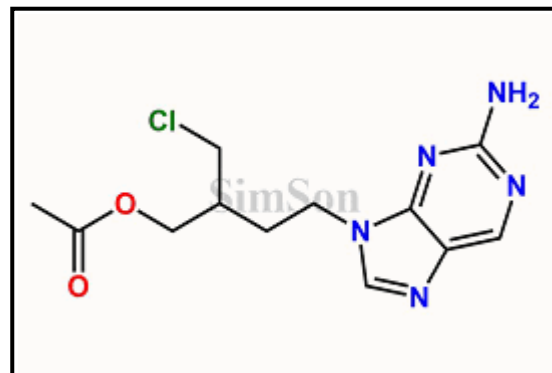
CAS No. : NA

Molecular Formula : C₁₂H₁₆ClN₅O₂

Molecular Weight : 297.75 g/mol

Long term Storage Condition : Store at 2°C to 8°C

Shipping Condition : Ambient



ANALYTICAL INFORMATION:

Sr No	TESTS	RESULTS
1	DESCRIPTION	Off white solid
2	SOLUBILITY	Soluble in DMSO & Methanol
3	IDENTIFICATION 1. 1H-NMR 2. 13C-NMR 3. MASS 4. IR	Conforms to the structure Conforms to the structure Conforms to the structure Conforms to the structure
4	PURITY (By HPLC)	96.51%
5	WEIGHT LOSS (By TGA) (Weight Loss: 30°C to 120°C,rate 20°C/min)	0.52% w/w
6	ASH CONTENT (30°C to 120°C , rate: 20°C/min)(120°C to 850°C, rate:40°C/min)	NIL
7	DEFINED POTENCY (By Mass Balance Method) % = [(100-(weight Loss by TGA + Ash content by TGA))x HPLC purity/100]	96.01% w/w

Not for Human or Animal Consumption. Only for Analytical Testing Purpose



Prepared By : Soumya Thatipamula
(Sign & Date) 22/04/2026



Approved By : Sunayana Pillai
(Sign & Date) 22/04/2026

Quality Accreditations: ISO 9001:2015, ISO 17034:2016, ISO/IEC 17025:2017, GLP Certified, DSIR

Simson Pharma Limited :Office :B-307, Sarita Building, Prabhat Indl. Estate. Nr. Dahisar Toll Naka, Dahisar (East), Mumbai - 400068.
Simson Life Sciences Pvt.Ltd :Shed No.6A, Type III, TSIIC, Prashanthi Nagar, Kukatpally, Hyderabad, Telangana-500072



PRODUCT TECHNICAL INFORMATION

Qualification Report Number: SL-RJS-369-028/QR/25-00032

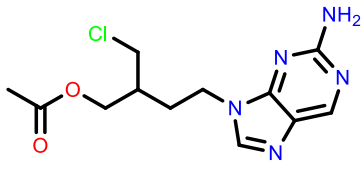
Product Name	DEOXYCHLORO FAMCICLOVIR	
Chemical Name	4-(2-Amino-9H-purin-9-yl)-2-(chloromethyl)butyl acetate	
Molecular Formula	C ₁₂ H ₁₆ ClN ₅ O ₂	
Molecular Weight	297.74 g/mol	
Batch No.	SL-RJS-369-028	
Synonyms	Famciclovir Deoxy-chloro Impurity	
CAS No.	NA	
CAT No.	F270006	

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Prepared By: 

Reviewed By: 



I. IDENTIFICATION BY ¹H NMR SPECTROSCOPY

A. Experimental:

Product name : DEOXYCHLORO FAMCICLOVIR	Instrument Name : FT-NMR Spectrometer
Batch No. : SL-RJS-369-028	Instrument Model : BRUKER 400MHZ
Solvent : DMSO-d ₆	Instrument ID : SATL/EQ/197

B. Methodology: The NMR experiments were performed on 400 MHz Bruker FT-NMR Spectrometer using DMSO-d₆ Solvent. ¹H NMR Chemical shifts are reported on the δ scale in ppm in relative to TMS. The assignment of protons is given below.

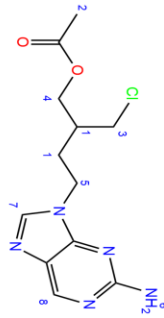
C. Results:

S. No.	Chemical Shift δ, ppm	Multiplicity	No. of protons	'J' coupling constant	Assignment of proton (s)
1.	1.87-1.98	M	3H	-	3
2.	1.99	S	3H	-	3
3.	3.71-3.79	M	2H	-	2
4.	4.00-4.08	M	2H	-	2
5.	4.12-4.16	T	2H	-	2
6.	6.48	S	2H	-	2
7.	8.09	S	1H	-	1
8.	8.56	S	1H	-	1
Total No. of protons					16
Remarks:-			Confirms to the structure		

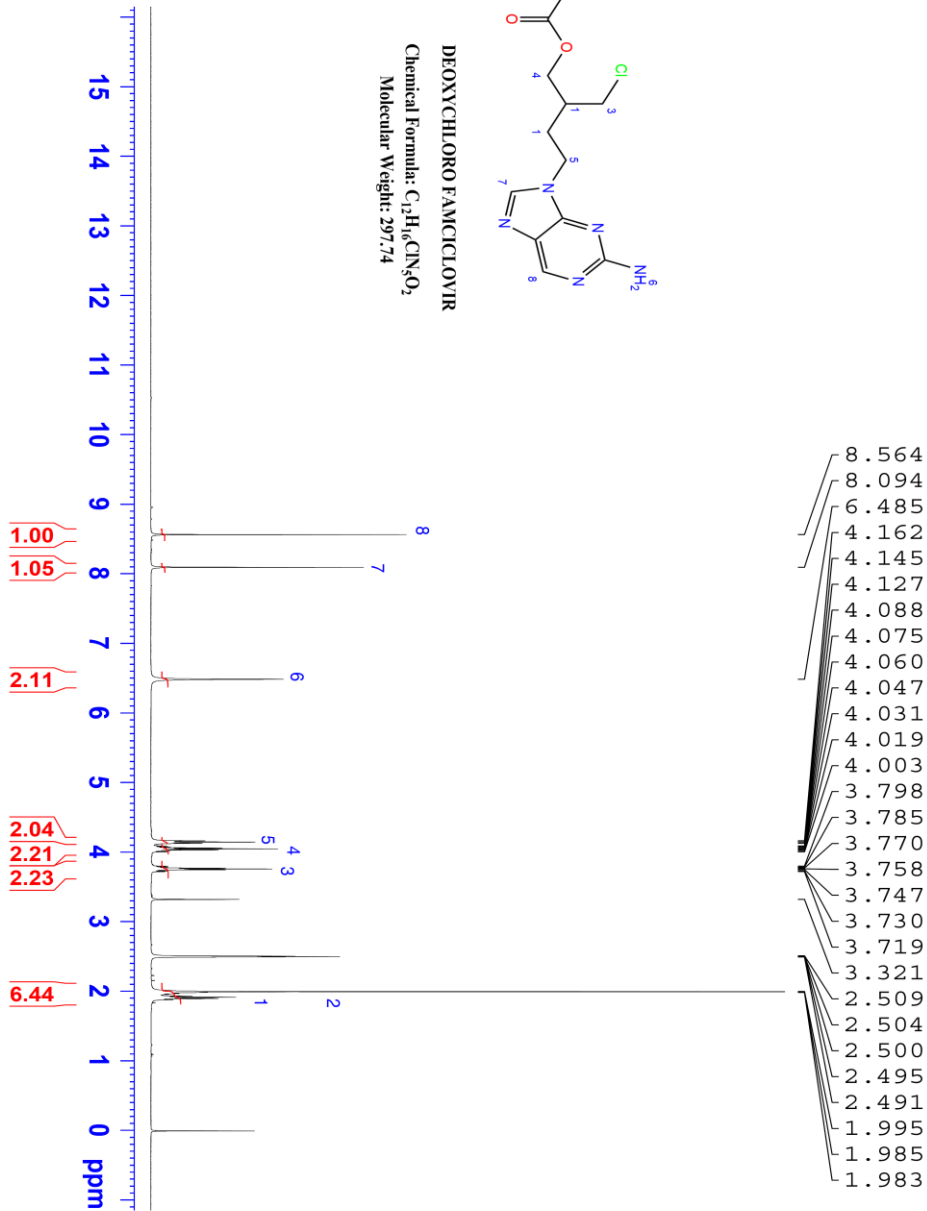
Note: The Assignments are based on chemical shifts and multiplicities

Prepared By: 

Reviewed By: 



DEOXYCHLORO FAMCICLOVIR
 Chemical Formula: C₁₂H₁₆ClN₃O₂
 Molecular Weight: 297.74



ID: SATL/EQ/197

Current Data Parameters
 NAME 04-SLN-00299-26-27-1H
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20260404
 Time_ 11:39 h
 INSTRUM Avance NEO Nanobay
 PROBHD Z163739_0338 (z930
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 12
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.305176 Hz
 AQ 3.276799 sec
 RG 101
 DW 50.000 usec
 DE 11.14 usec
 TE 298.9 K
 D1 2.00000000 sec
 TD0 1
 SFO1 400.3024719 MHz
 NUC1 1H
 P0 2.67 usec
 P1 8.00 usec
 PLW1 21.3810052 W
 PC 1.00

F2 - Processing parameters
 SI 65536
 SF 400.3000028 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Prepared By:

Reviewed By:

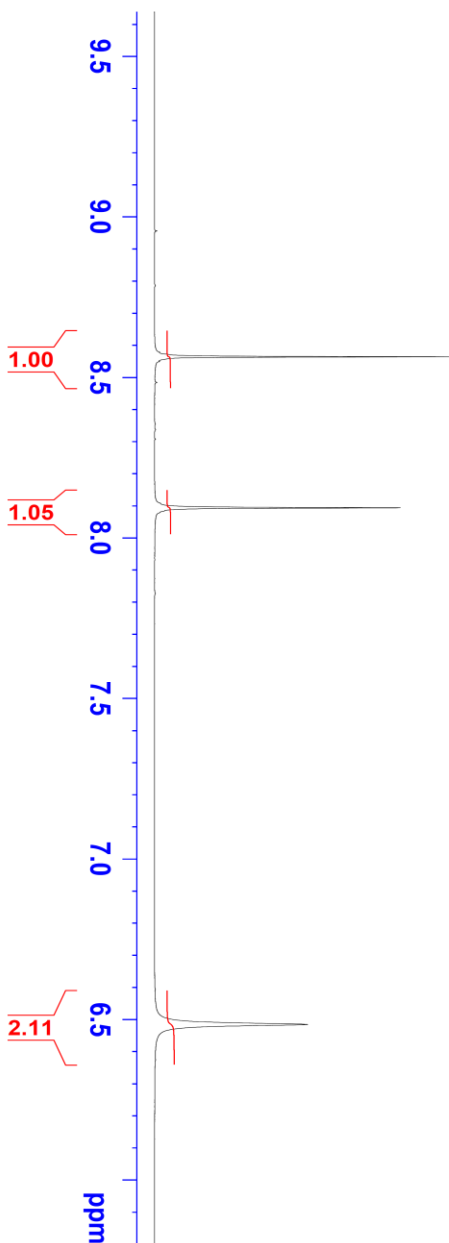


SL-RJS-369-028
1H IN DMSO



ID: SATL/EQ/197

8.564
8.094
6.485



Current Data Parameters
NAME 04-SLN-00299-26-27-1H
EXNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20260404
Time_ 11.39 h
INSTRUM Avance NEO Nanobay
PROBHD Z163739_0338 ()
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 12
DS 2

SWH 10000.000 Hz
FIDRES 0.305176 Hz
AQ 3.2767999 sec
RG 101
DM 50.000 usec
DE 11.14 usec
TE 298.9 K
D1 2.00000000 sec
TD0 1
SFO1 400.3024719 MHz
NUC1 1H
P0 2.67 usec
P1 8.00 usec
PLW1 21.38100052 W

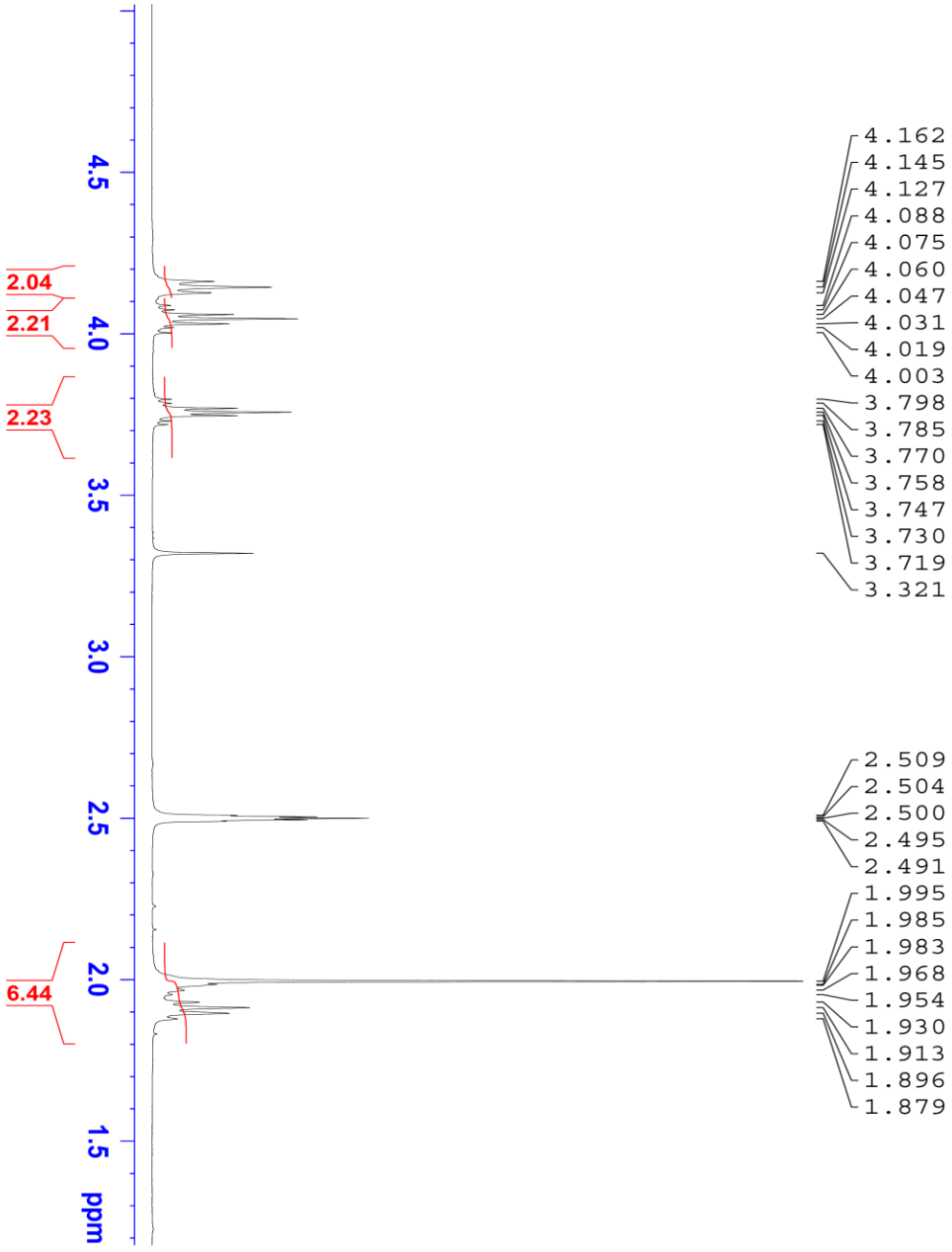
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SF 400.3000028 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Prepared By:

Reviewed By:



SL-RJS-369-028
1H IN DMSO



ID: SATT/EG/197

Current Data Parameters
 NAME 04-SLN-00299-26-27-1H
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20260404
 Time_ 11.39 h
 INSTRUM Avance NEO Nanobay
 PROBRD Z163739_0338 (zq30
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 12
 DS 2
 SWH 10000.000 Hz
 FIDRES 0.305176 Hz
 AQ 3.2767999 sec
 RG 101
 DW 50.000 usec
 DE 11.14 usec
 TE 298.9 K
 D1 2.00000000 sec
 TPO 1
 SFO1 400.3024719 MHz
 NUC1 1H
 P0 2.67 usec
 PL 8.00 usec
 PLM1 21.38100052 W

F2 - Processing parameters
 SI 65536
 SF 400.3000028 MHz
 NDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Prepared By:

Reviewed By:



II. IDENTIFICATION BY ^{13}C NMR SPECTROSCOPY:

A. Experimental:

Product name : DEOXYCHLORO FAMCICLOVIR	Instrument Name : FT-NMR Spectrometer
Batch No. : SL-RJS-369-028	Instrument Model : BRUKER 400MHZ
Solvent : DMSO-d6	Instrument ID : SATL/EQ/197

B. Methodology: The NMR experiments were performed on 400 MHz Bruker FT-NMR Spectrometer using DMSO-d₆ Solvent. ^{13}C NMR Chemical shifts are reported on the δ scale in ppm in relative to TMS. The assignment of carbons is given below.

C. Results:

S. No.	Chemical Shift δ , ppm	Multiplicity	No. of Carbons	Assignment of Carbon (s)
1.	20.558	S	1C	1
2.	28.309	S	1C	1
3.	36.514	S	1C	1
4.	45.508	S	2C	2
5.	63.339	S	1C	1
6.	126.834	S	1C	1
7.	142.573	S	1C	1
8.	149.007	S	1C	1
9.	152.965	S	1C	1
10.	160.463	S	1C	1
11.	170.291	S	1C	1
Total No. of Carbons				12
Remarks: -			Confirms to the structure	

Note: The assignments are based on chemical shifts and multiplicities

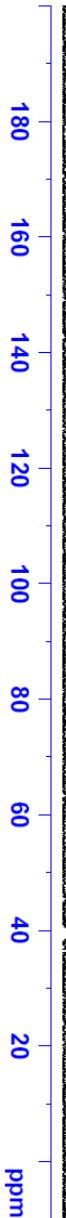
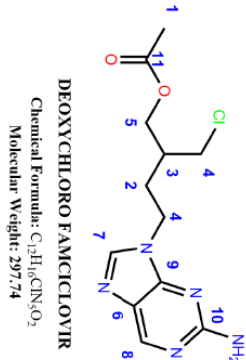
Prepared By: 

Reviewed By: 

SL-RJS-369-028
13C IN DMSO

170.291
160.463
152.965
149.007
142.573
126.834

63.339
45.508
40.126
39.917
39.709
39.500
39.292
39.083
38.874
36.514
28.309
20.558



Analysed By

Supriyarao



ID: SATT/EO/197
Current Data Parameters
NAME 04-SLN-00360-26-27-13C
EXFNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20260405
Time_ 7.23 h
INSTRUM Avance NBO Nanobay
PROBHD Z163739_0338 (PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 676
DS 4
SWH 23809.523 Hz
FIDRES 0.726609 Hz
AQ 1.3762560 sec
RG 101
RG 21.000 usec
DW 6.50 usec
DE 298.4 K
TE 3.00000000 sec
D11 0.03000000 sec
TD0 1
SFO1 100.6555806 MHz
NUC1 13C
P0 2.67 usec
P1 8.00 usec
PLW1 100.98000336 W
SFO2 400.3016012 MHz
NUC2 1H
CPDPRG12 waltz65
PCPD2 90.00 usec
PLW2 21.38100052 W
PLM12 0.16893999 W
PLM13 0.08497500 W

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WDW EM
SSB 0
GB 0
PC 1.40

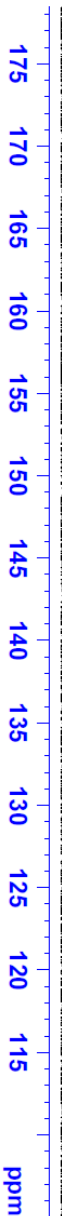
Prepared By:

Reviewed By: B. Supriyarao



SI-RJS-369-028
13C IN DMSO

— 170.291
— 160.463
— 152.965
— 149.007
— 142.573
— 126.834



Analysed By

Supriyarao



ID: SATL/EQ/197
Current Data Parameters
NAME 04-SIM-00360-26-27-13C
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20260405
Time_ 7.23 h
INSTRUM Avance NEO Nanobay
PROBHD Z163739_0338 (PULPROG
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 676
DS 4
SWH 23809.523 Hz
FIDRES 0.726609 Hz
AQ 1.3762560 sec
RG 101
DW 21.000 usec
DE 6.50 usec
TE 298.4 K
D1 3.00000000 sec
D11 0.03000000 sec
TD0 1
SF01 100.6655806 MHz
NUC1 13C
P0 2.67 usec
P1 8.00 usec
PLM1 100.98000336 W
SF02 400.3016012 MHz
NUC2 1H
CPDPRG12 waltz65
PCPD2 90.00 usec
PLM2 21.38100052 W
PLM12 0.16893999 W
PLM13 0.08497500 W

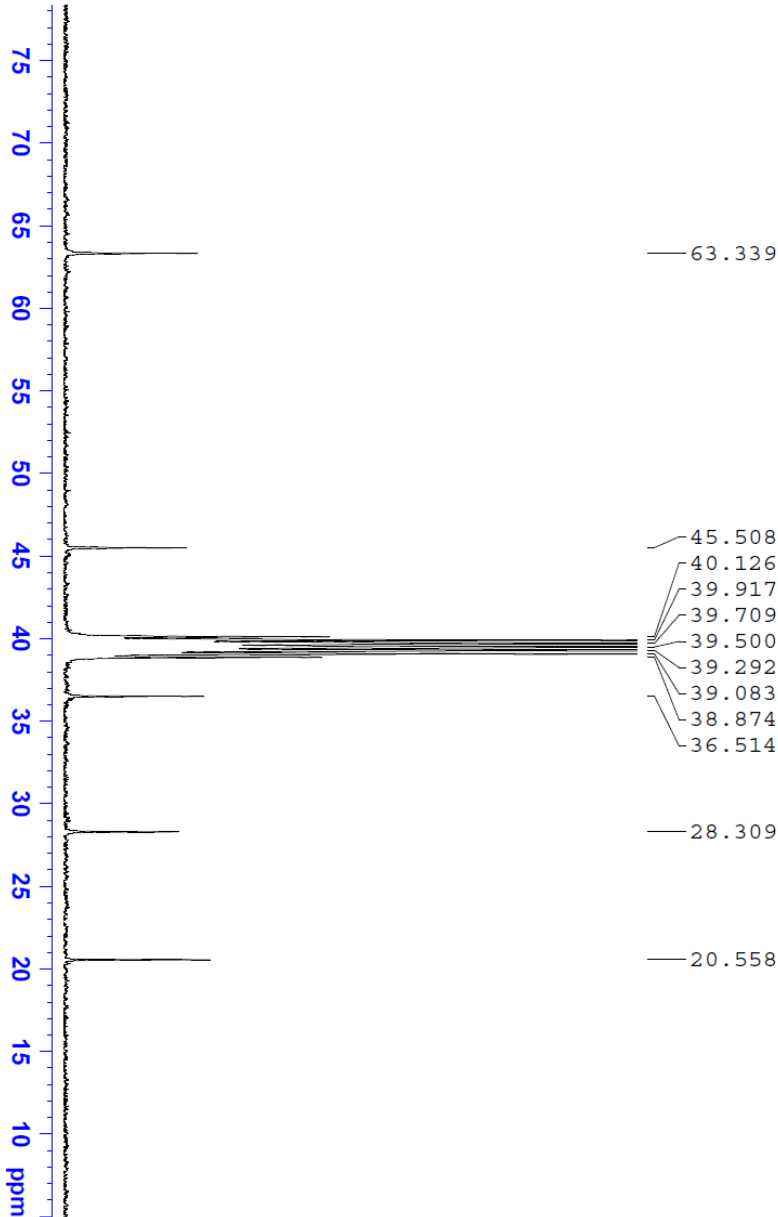
F2 - Processing parameters
SI 32768
SF 100.655647 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

Prepared By:

Reviewed By:

Analysed By

Supriyarao



ID: SATL/EQ/197
Current Data Parameters
NAME 04-SLN-00360-26-27-13C
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20260405
Time 7.23 h
INSTRUM Avance NEO Nanobay
PROBHD Z163739 0338 (zqnp30
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 676
DS 4
SWH 23809.523 Hz
FIDRES 0.726609 Hz
AQ 1.3762560 sec
RG 101
DW 21.000 usec
DE 6.50 usec
TE 298.4 K
D1 3.00000000 sec
D11 0.03000000 sec
TDO 1
SFO1 100.6655806 MHz
NUC1 13C
P0 2.67 usec
PL1 100.98000336 W
SFO2 400.3016012 MHz
NUC2 1H
CPDPRG12 waltz65
PCPD2 90.00 usec
PLM2 21.38100052 W
PLM12 0.16893999 W
PLM13 0.08497500 W

F2 - Processing parameters
SI 32768
SF 100.655647 MHz
WDW EM
SSB 0
GB 3.00 Hz
PC 1.40

Prepared By:

Reviewed By:



III. IDENTIFICATION BY MASS SPECTROSCOPY:

A. Experimental:

Product name : DEOXYCHLORO FAMCICLOVIR	Instrument Name : Mass Spectrometer
Batch No. : SL-RJS-369-028	Instrument Model : API 2000
Solvent used : METHANOL	Instrument ID : SATL/EQ/016

B. Methodology: The mass spectroscopy studies were performed on API 2000 mass spectrometer triple quadruple. The mass spectrum in positive mode displayed a protonated molecular ion at m/z 298.1 g/mol corresponding to $[M+H]^+$ confirms the monoisotopic mass as m/z corresponding to the Molecular formula $C_{12}H_{16}ClN_5O_2$

Solvent: methanol.

C. Results:

S. No.	Composition	Exact Mass	Molecular Weight	m/z value
1.	$C_{12}H_{16}ClN_5O_2$	297.10	297.74	298.1 (+ve mode) 299.3 (+ve mode) [M+2]

Remarks:

1. Mass peak at m/z 298.1 corresponds to product mass peak.

Prepared By:

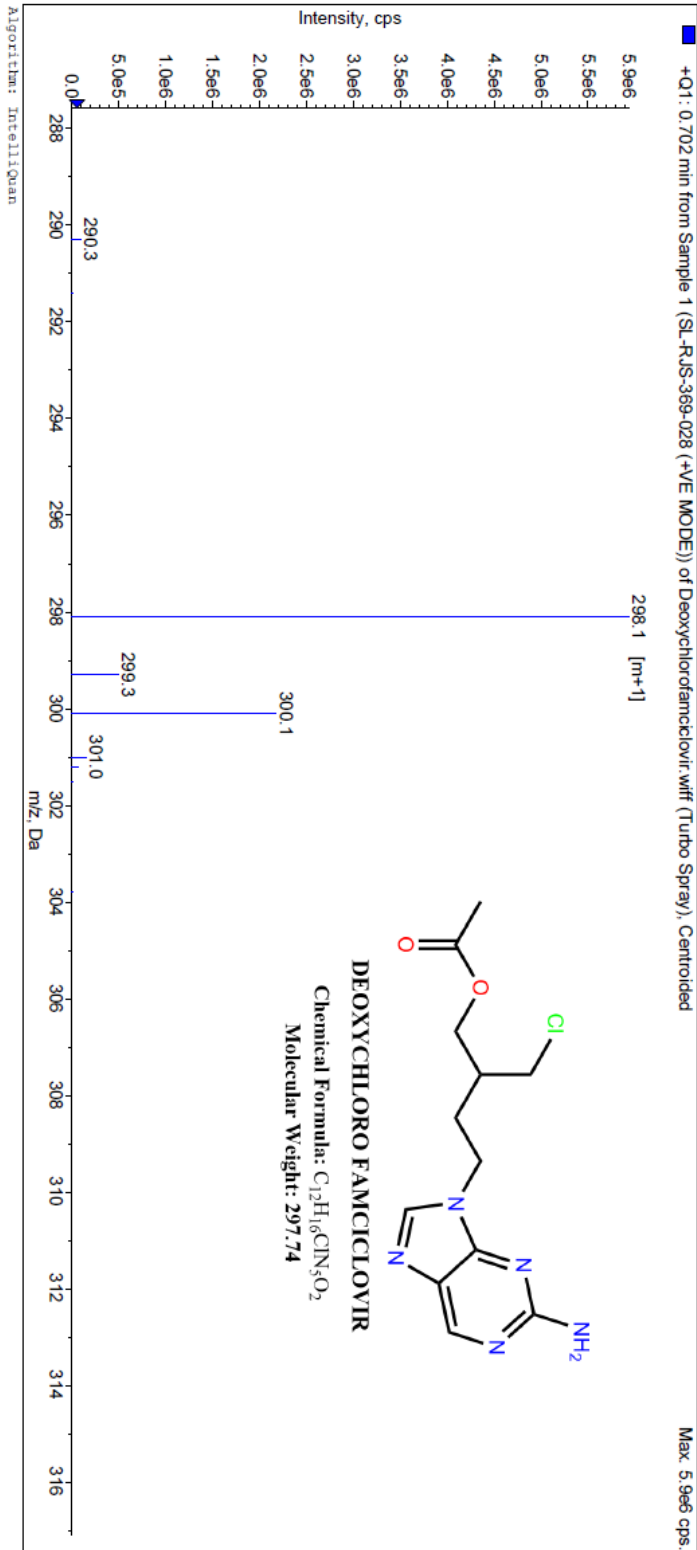
Reviewed By:

Acq. File: Dsoxychlorofamciclovir.wiff
 Sample Name: SL-RJS-369-028 (+VE MDOB)
 Acq. Date: Monday, April 06, 2026
 Operator: Rakesh Benchiboya
 Acq. Time: 12:45

Sample Comment: Solvent: Methanol
 No: SLN/00299/26-27

Instrument ID: SMTL/SQ/016

Reg



*Analysed By:

12:58:44
 Printing Date: 06/04/2026

*Checked By:

Prepared By:

Reviewed By:



IV. IDENTIFICATION BY FT-IR SPECTROSCOPY:

A. Experimental:

Product name : DEOXYCHLORO FAMCICLOVIR	Instrument Name : FT-IR Spectrometer
Batch No. : SL-RJS-369-028	Instrument Model : BRUKER
Sample Preparation: KBr pellet	Instrument ID : SATL/EQ/025

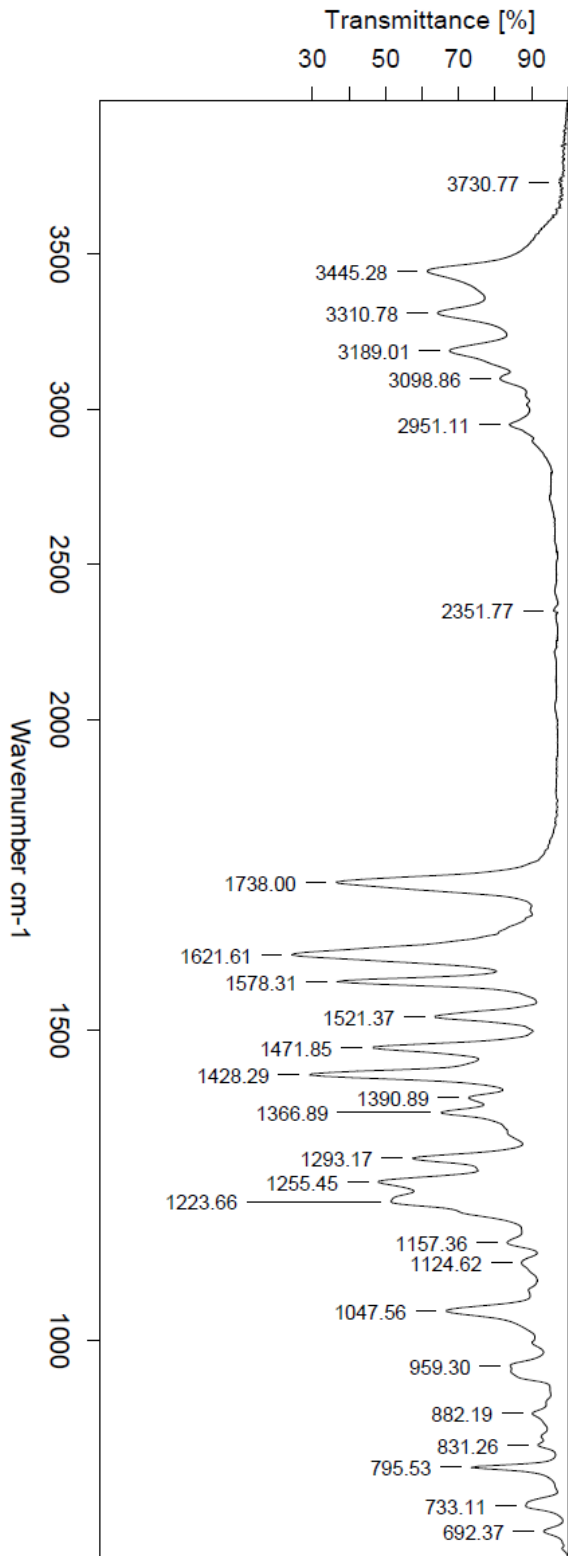
B. Methodology: DEOXYCHLORO FAMCICLOVIR was recorded on FT-IR Bruker Spectrometer by using KBr pellet technique. The structural assignments have been correlated with the following frequencies.

C. Results:

S. No.	Absorption peak cm-1	Specific type of bond	Corresponding Functional Group
1.	3310.78	Stretching	N-H
2.	1738.00	Stretching	C=O
3.	1293.17	Stretching	C-N
4.	1157.36	Stretching	C-O
5.	795.93	Stretching	C-Cl

Prepared By: 

Reviewed By: 



Path/File Name: D:\SATL\EQ025_CTLV2026\CTLAPR2026\DATA\Deoxy Chloro Famciclovir SL-RJS-369-028 Reg No-SLN-00360-26-27.0

Sample Name: Deoxy Chloro Famciclovir

Lot No./Batch No: SL-RJS-369-028 Reg No-SLN-00360-26-27

Date & Time: 04/04/2026, 15:57:33

Operator Name: Anjali Devi B



Experiment: Trans.XPM

Resolution: 4

Sample Scans: 32

Frequency Range: 4000 to 650

04/04/2026 16:01:09
Page 1/1



V. PURITY BY HPLC:

A. Experimental:

Product name : DEOXYCHLORO FAMCICLOVIR	Instrument Name : HPLC
Batch No. : SL-RJS-369-028	Instrument Model : Shimadzu
Method : USP	Instrument ID : SATL/EQ/063

B. HPLC Method:

Column: C₈, (250 X 4.6mm), 5µm

Mobile phase A: 2.72 g/L of monobasic potassium phosphate in water. Adjust with 1 M phosphoric acid to a pH of 4.0 ± 0.05.

Mobile phase B: acetonitrile

Elution mode: Gradient Programme

Detector (λ)	:	220nm
Column Temperature	:	30°C
Run Time	:	80min
Flow	:	1.0 ml/min
Diluent	:	MP-A
Inj. Volume	:	20µl
Sample Preparation	:	1 mg/ml in Diluent.

Gradient Programme:

Time	Mobile Phase A	Mobile Phase B
0	95	5
50	75	25
60	75	25
65	95	5
75	95	5
80	95	5

C. Results: 96.51% by area normalization

Prepared By: 

Reviewed By: 



HPLC Chromatogram:

06/04/2026 09:29:35 Page 1 / 1

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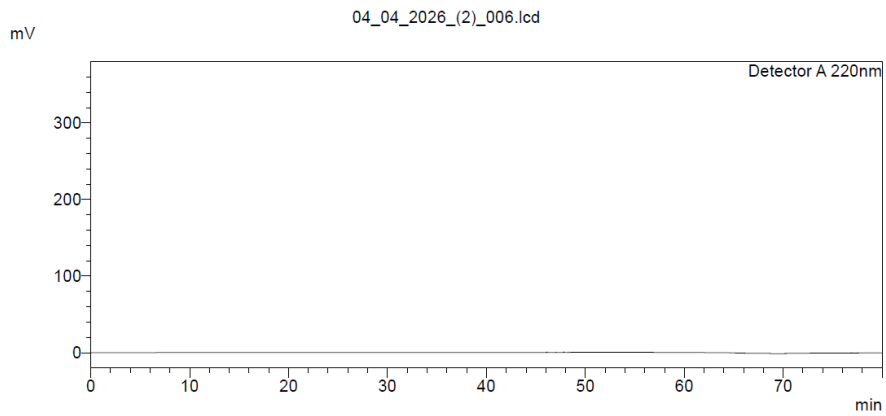
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04_04_2026_(2)_006.lcd

Sample Name : Famciclovir
 Sample ID : Blank
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 Method Filename : Famciclovir Tablets_Org IMP_USP.lcm
 Batch Filename : 04_04_2026_(2).lcb
 Vial # : 1-50
 Injection Volume : 20 uL
 Date Acquired : 04/04/2026 22:22:56
 Date Processed : 06/04/2026 09:06:05
 Data Description : Reg No: CSL/00063/26-27
 Column ID: 250*4.6 mm,5 µm Phenomenex (C8) CLC0186
 Method: USP
 Flow: 1.0 ml/min
 Diluent: MP-A

Sample Type : Unknown
 Acquired by : Bibhu Pada Sahoo
 Processed by : Bibhu Pada Sahoo

<Chromatogram>



<Peak Table>

04_04_2026_(2)_006.lcd

Detector A 220nm				
Peak#	Name	Ret. Time	Area	Area%
Total				

SATLEQ063\$CSL_APR_2026 - 6-49-2 - 04_04_2026_(2)_006.lcd

Prepared By:

Reviewed By:



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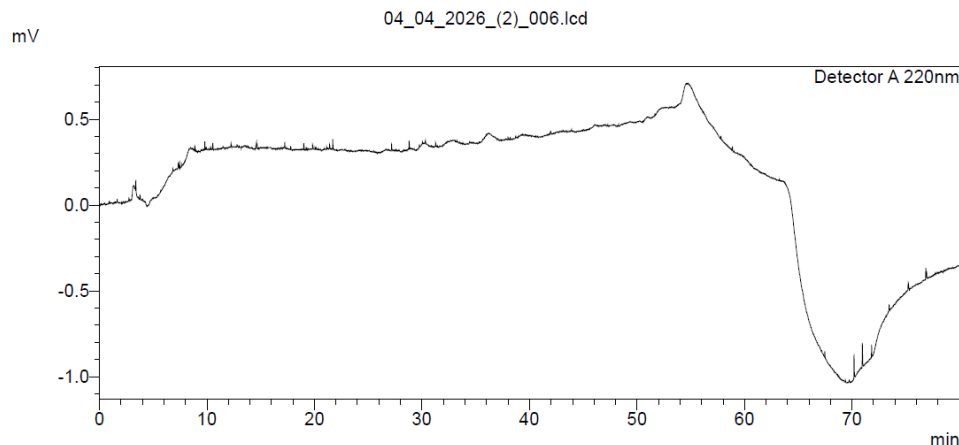
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 Sample ID : Blank
 Data Filename : 04_04_2026_(2)_006.lcd
 Method Filename : Famciclovir Tablets_Org IMP_USP.lcm
 Batch Filename : 04_04_2026_(2).lcb
 Vial # : 1-50
 Injection Volume : 20 uL
 Date Acquired : 04/04/2026 22:22:56
 Date Processed : 06/04/2026 09:06:05
 Data Description : Reg No: CSL/00063/26-27
 Column ID: 250*4.6 mm,5 µm Phenomenex (C8) CLC0186
 Method: USP
 Flow: 1.0 ml/min
 Diluent: MP-A

Sample Type : Unknown
 Acquired by : Bibhu Pada Sahoo
 Processed by : Bibhu Pada Sahoo

<Chromatogram>



<Peak Table>

04_04_2026_(2)_006.lcd

Peak#	Name	Ret. Time	Area	Area%
Total				

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Prepared By:

Reviewed By:

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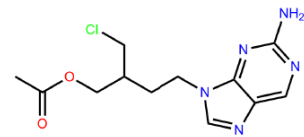


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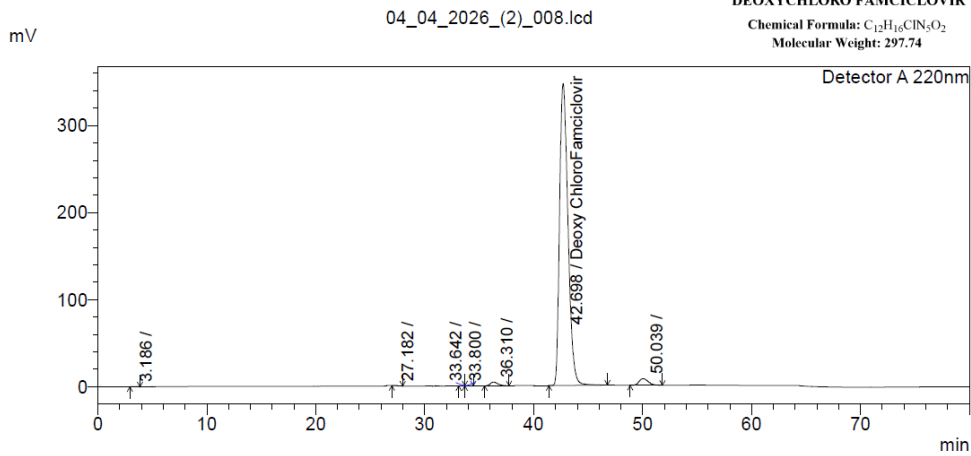
04_04_2026_(2)_008.lcd

Sample Name : Deoxy ChloroFamciclovir
 Sample ID : SL-RJS-369-028
 Data Filename : 04_04_2026_(2)_008.lcd
 Method Filename : Famciclovir Tablets_Org IMP_USP.lcm
 Batch Filename : 04_04_2026_(2).lcb
 Vial # : 1-52
 Injection Volume : 20 uL
 Date Acquired : 05/04/2026 01:04:10
 Date Processed : 06/04/2026 09:22:38
 Data Description : Reg No: CSL/00063/26-27
 Column ID: 250*4.6 mm,5 µm Phenomenex (C8) CLC0186
 Method: USP
 Flow: 1.0 ml/min
 Diluent: MP-A

Sample Type : Unknown
 Acquired by : Bibhu Pada Sahoo
 Processed by : Rambabu Jaddu



<Chromatogram>



<Peak Table>

04_04_2026_(2)_008.lcd

Detector A 220nm

Peak#	Name	Ret. Time	Area	Area%
1		3.186	5502	0.029
2		27.182	4719	0.024
3		33.642	2801	0.015
4		33.800	3629	0.019
5		36.310	204081	1.058
6	Deoxy ChloroFamciclovir	42.698	18624111	96.509
7		50.039	452855	2.347
Total			19297699	100.000

SATLEQ063\$CSL_APR_2026 - 6-51-2 - 04_04_2026_(2)_008.lcd

Prepared By:

Reviewed By:



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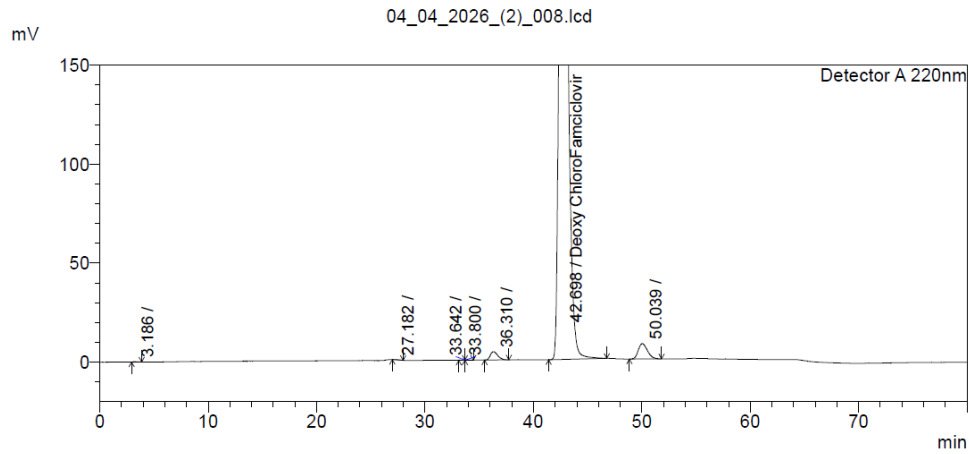


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04_04_2026_(2)_008.lcd

Sample Name : Deoxy ChloroFamciclovir
 Sample ID : SL-RJS-369-028
 Data Filename : 04_04_2026_(2)_008.lcd
 Method Filename : Famciclovir Tablets_Org IMP_USP.lcm
 Batch Filename : 04_04_2026_(2).lcd
 Vial # : 1-52 Sample Type : Unknown
 Injection Volume : 20 uL
 Date Acquired : 05/04/2026 01:04:10 Acquired by : Bibhu Pada Sahoo
 Date Processed : 06/04/2026 09:22:38 Processed by : Rambabu Jaddu
 Data Description : Reg No: CSL/00063/26-27
 Column ID: 250*4.6 mm,5 µm Phenomenex (C8) CLC0186
 Method: USP
 Flow: 1.0 ml/min
 Diluent: MP-A

<Chromatogram>



<Peak Table>

04_04_2026_(2)_008.lcd

Detector A 220nm

Peak#	Name	Ret. Time	Area	Area%
1		3.186	5502	0.029
2		27.182	4719	0.024
3		33.642	2801	0.015
4		33.800	3629	0.019
5		36.310	204081	1.058
6	Deoxy ChloroFamciclovir	42.698	18624111	96.509
7		50.039	452855	2.347
Total			19297699	100.000

SATLEQ063\$CSL_APR_2026 - 6-51-2 - 04_04_2026_(2)_008.lcd

Prepared By:

Reviewed By:



VI. LOSS ON DRYING AND ASH CONTENT BY THERMO GRAVIMETRIC ANALYSIS (TGA):

A. Experimental:

Product name : DEOXYCHLORO FAMCICLOVIR	Instrument Name : TGA
Batch No. : SL-RJS-369-028	Instrument Model : Perkin Elmer
Method : 30°C to 850°C	Instrument ID : SATL/EQ/041

B. Methodology: Sample was recorded on a TGA Analyzer as per the below conditions.

30°C to 120°C at 10°C/min; Gas Flow:


120°C to 850°C at 40°C/min; Gas Flow:

C. Results:

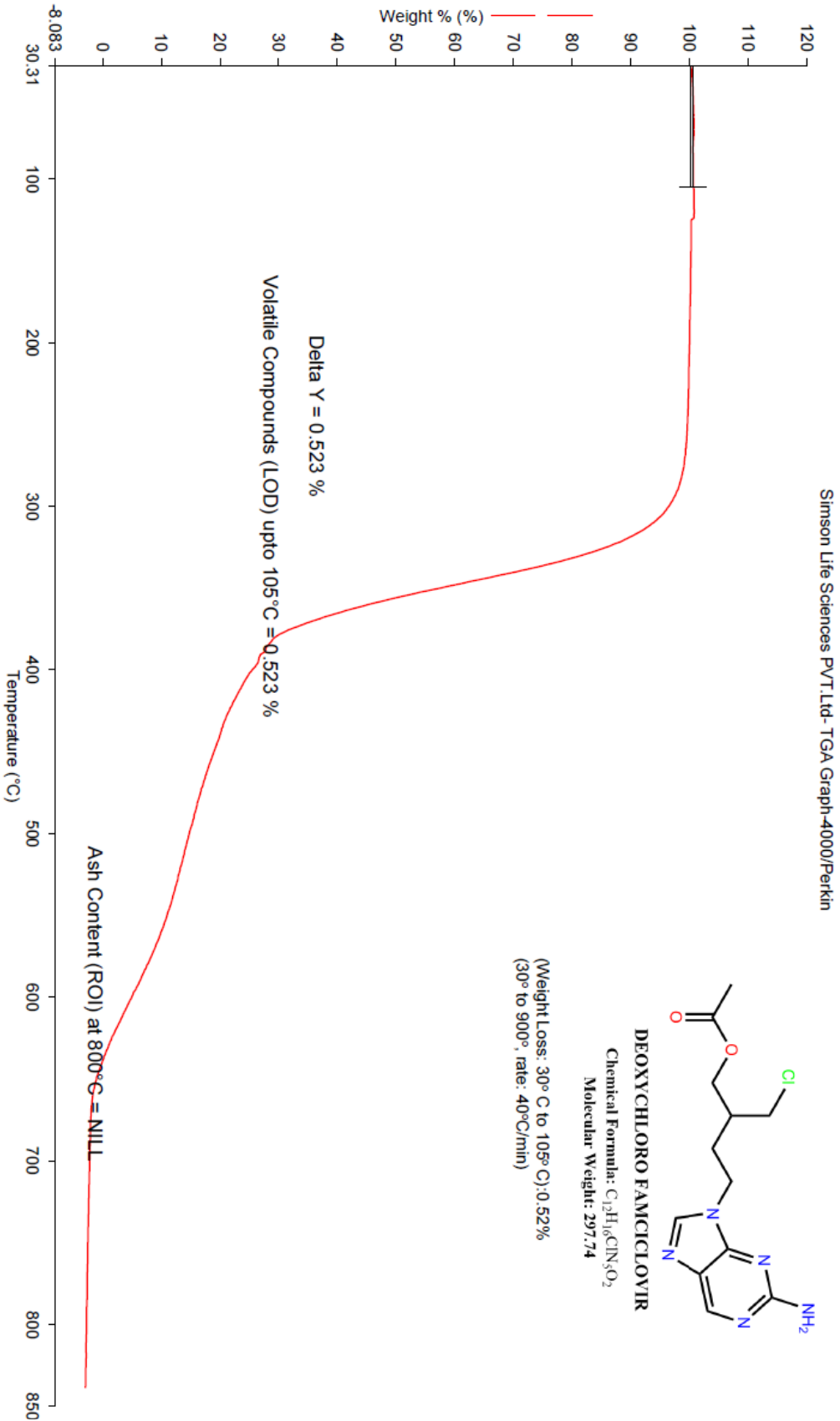
- i. % of Loss Observed up to 105°C: 0.52%
- ii. % of Ash content observed: NIL

The TGA thermogram is enclosed.

Prepared By: 

Reviewed By: 

Filename: D:\SATLEEQ04...Deoxy Chloro Famciclovir.tbd
 Data Collected: 07/04/2026 11:17:23
 Operator ID: Karthika Alavala
 Sample ID: SLN/00360/26-27
 Sample Weight: 3.881 mg
 Comment: B.No: SL-RJS-369-028



1) Heat from 30.00°C to 120.00°C at 20.00°C/min

2) Heat from 120.00°C to 850.00°C at 40.00°C/min

07/04/2026 11:29:46

Prepared By:

Reviewed By:



VII. DEFINED POTENCY (BY MASS BALANCE METHOD):

Potency/Content/Assay of this product has been determined by a mass balance method.

Formula:

Chromatography purity x (100-(LOD by TGA+ Ash content))/100

Purity= 96.51%

LOD by TGA: 0.52%

Ash content: 0%

Calculation:

$$= 96.51 \times (100 - 0.52) / 100$$

Defined Potency = 96.01% w/w

VIII. CONCLUSION: The product has been qualified by identification by ¹H NMR, ¹³C NMR, Mass and HPLC.

Potency/Content/Assay has defined by mass balance method.

This product has been qualified and can be used as an impurity standard for qualitative and quantitative purpose.

Disclaimer:

The product is meant for analytical testing purpose only and not for human/animal consumption.

No patents are applicable for this product as product is manufactured in small quantities for analytical testing purpose only.

Prepared By: 

Reviewed By: 