





WORKING STANDARD CERTIFICATE

QUALIFICATION OF WORKING STANDARD

ITEM : A

: ABACAVIR SULFATE USP.

EVALUATED WITH: USPRS/GN/A8/10

BATCH.NO.

:F1L487

DATE OF QUALIFICATION

: 31.05.2016

DIRECTION FOR STORAGE

: # Store between 2° to 8°C in a well closed container & protect from light.

DIRECTION FOR USE

: Use as such.

VALIDITY OF USE (PERIOD) WORKING STANDARD No.

: 30.05.2018

A.R.No.

: WS/C/A86/05

SOURCE B.NO.

: KK1601474 : LDX160014

SOURCE A.R.NO.: 40000202661

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REFERENCE: Protocol No.: WP/USP/WS/C/A86/01

Sr. No.	TESTS	STANDARDS	RESULTS
1)	DESCRIPTION	White to off-white powder.	Complies
2)	IDENTIFICATION Δ (A) BY IR	The infrared spectrum of the sample is concordant with the Spectrum obtained from the similar determination of USP Abacavir Sulfate RS.	Complies
The second secon	Δ (B) BY HPLC	The retention time of the major peak of the sample solution corresponds to that of the system suitability solution as directed in the test for Enanatiomeric purity.	Complies
	(C) TEST FOR SULFATE	It meets the requirements of the test for Sulfate.	Complies
	@(D) BY MASS SPECTROMETRY	The characterization of sample by Mass spectrum should obtain same molecular weight obtained by empirical formula.	Complies
	(E) POLYMORPHIC IDENTITY BY X-RAY POWDER DIFFRACTION	The XRPD pattern of sample is concordant with that of the Abacavir sulfate working standard obtained in the similar manner.	Complies
3)	∆ASSAY BY HPLC (on anhydrous and solvent free basis)	Not less than 97.0%w/w and Not more than 102.0 % w/w.	100.3 %w/w
)	RESIDUE ON IGNITION	Not more than 0.20 % w/w	0.04 % w/w

Remarks: ATests qualified with USPRS.

All other tests comply as per USP and certified to use as Working standard.

Note : #Third party may store as per specification, @Test as per MOA, *Test as per 1035-L-0014.

HEAD QUALITY CONTROL

DATE: 31-05-206

LAR OA HEAD

DATE:

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1035-L-0014/F1

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: ABACAVIR SULFATE USP. ITEM

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WORKING STANDARD No. A.R.No.

: WS/C/A86/05 : KK1601474

SOURCE B.NO.

:LDX160014

SOURCE A.R.NO.: 40000202661

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REFERENCE: Protocol No.: WP/USP/WS/C/A86/01

Sr. No.	TESTS	STANDARDS	RESULTS
5)	AORGANIC IMPURITIES PROCEDURE 1:RELATED COMPOUND By HPLC Descyclopropyl abacavir Trance-Abacavir O-Pyrimidine derivative abacavir t-Butyl derivative abacavir Any unspecified impurity Total impurities	Not more than 0.20% Not more than 0.20% Not more than 0.20 %. Not more than 0.20 %. Not more than 0.10 %. Not more than 0.80 %.	Below LOQ (0.05 %) Not Detected Below LOQ (0.05 %) Not Detected Below LOQ (0.05 %) Below LOQ
6)	ENATIOMERIC PURITY BY HPLC Individual impurities	Not more than 0.30 % of Abacavir enantiomer.	Not Detected
7)	WATER DETERMINATION	Not more than 0.50 % w/w.	0.15 % w/w
8)	SOLUBILITY	Soluble in water,	Complies
9)	CONTENT OF SULFATE (as H₂SO₄) BY POTENTIOMETRY	Not less than 14.3 % and Not more than 14.9 % on anhydrous basis.	14.6 % w/w
10)	RESIDUAL SOLVENT BY GC Methanol Ethanol Acetone Dichloromethane Dimethylformamide Total residual solvents	Not more than 3000 ppm Not more than 5000 ppm Not more than 5000 ppm Not more than 400 ppm Not more than 880 ppm Not more than 7000 ppm	Not Detected 2578 263 Below LOQ (43) Not Detected 2841
11)	SPECIFIC OPTICAL ROTATION (On anhydrous basis)	Not less than -55.00° and Not more than -59.00° at 20 ° C	-58.01 °
12)	HEAVY METALS	Not more than 20 ppm	Complies
13)	* PURITY (%) (By Mass Balance Method)	Not applicable	99.5 % (On as such basis)

Remarks: ATests qualified with USPRS.

All other tests comply as per USP and certified to use as Working standard.

: #Third party may store as per specification, @Test as per MOA, *Test as per 1035-L-0014.

LAB QA HEAD

HEAD QUALITY CONTROL

DATE: 31.05.2016

DATE:

* 1200/

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