ISO 9001 : 2008 Certified

NATCO PHARMA LIMITED
Regd. Off. : 'NATCO HOUSE', Road No. 2,
Banjara Hills, Hyderabad - 500 034. Telangana, INDIA.
Tel : +91 40 23547532, Fax : +91 40 23548243
CIN : L24230TG1981PLC003201, www.natcopharma.co.in

CERTIFICATE OF ANALYSIS

Product name: Velakast (Sofosbuvir & Velpatasvir Tablets 400mg/100mg)		Batch No.: 1900891
Batch size: 100,000 Tablets	Sampling Date: 02/04/2018	Mfg. Date: 04/2018
Qty. Sampled: 40 Tablets	Analysis Date: 02/04/2018	Exp. Date: 03/2020
Sampled by: A.Anvesh Kumar	Reporting Date: 05/04/2018	A.R.No.: U4/FP/1018/59

S. No.	TEST	RESULT		SPECIFICATION
1	Description	Blue coloured, oval shaped, film-coated tablets debossed with **'S'** on one side and **'V'** on other side.		Blue coloured, oval shaped, film-coated tablets debossed with **'S'** on one side and **'V'** on other side.
2	Identification			
	a) By HPLC	The sample retention time corresponds with the standard retention time as obtained in the assay.		The retention time of the major peak in the chromatogram of the sample preparation corresponds to that in the chromatogram of the standard preparation, as obtained in the Assay.
	b) By UV	The peak maxima of the standard and sample spectra exhibit at same wavelenghts.		The UV absorption spectrum of the sample solution and standard solution shall exhibit maxima at the same wavelenght.
3	Uniformity of dosage units (By content uniformity)	Velpatasvir = 1.3 Sofosbuvir = 1.4		The acceptance value of the first 10 dosage units is less than or equal to L1 (L1 is 15.0 and L2 is 25.0)
4	Average weight	1026.8 mg		1030.0mg±5.0%
5	Water content	1.75 % w/w		Not more than 5.0% w/w
6	Dissolution (By HPLC)			
	Velpatasvir	101.1%	100.4%	Not less than 80% (Q) of the labeled amount of Velpatasvir and Sofosbuvir are dissolved in 45 minutes.
		99.8%	102.1%	
		100.8%	99.7%	
	Sofosbuvir	101.9%	102.1%	
		101.1%	99.9%	
		100.6%	101.5%	

Prepared by: Date: 05/04/2018

Reviewed by: Date: 05/04/2018

Approved: Date: 05/04/2018

Pharma Division : KOTHUR-509 228, Mahaboob Nagar Dt. Telangana. 08548 - 257289, Fax : 08548 - 257290 ● e_mail: kothur@natcopharma.co.in

CERTIFICATE OF ANALYSIS

Product name: Velakast (Sofosbuvir & Velpatasvir Tablets 400mg/100mg)		Batch No.: 1900891
Batch size: 100,000 Tablets	Sampling Date: 02/04/2018	Mfg. Date: 04/2018
Qty. Sampled: 40 Tablets	Analysis Date: 02/04/2018	Exp. Date: 03/2020
Sampled by: A.Anvesh Kumar	Reporting Date: 05/04/2018	A.R.No.: U4/FP/1018/59

S. No.	TEST	RESULT	SPECIFICATION
7	Assay (By HPLC): Each film coated tablet contains.		
	Velpatasvir: 100 mg	100.6%	Not less than 90.0% and Not more than 110.0% of the labeled amount of Velpatasvir.
	Sofosbuvir: 400 mg	101.2%	Not less than 90.0% and Not more than 110.0% of the labeled amount of Sofosbuvir.
8	Related impurities (%w/w, By HPLC)		
	a) Sofosbuvir		
	Any individual impurity	Less than 0.05%	Not more than 0.30%
	Total impurities	Less than 0.05%	Not more than 1.0%
	b) Velpatasvir		
	Keto impurity	Less than LOQ (0.048%)	Not more than 0.8%
	Any Individual unspecifield impurity	Less than 0.05%	Not more than 0.20%
	Total impurities	Less than 0.05%	Not more than 1.20%
9	Microbial Enumeration tests and Test for specified microorganisms		
	Total aerobic microbial count	Less than 10 gfu/g	Not more than 1000 cfu/g
	Total combined molds and yeasts	Less than 10 gfu/g	Not more than 100 cfu/g
	Escherichia coli	Absent	Should be absent/g
	Salmonella species	Absent	Should be absent/10g
	Pseudomonas aeruginosa	Absent	Should be absent/g
	Staphylococcus aureus	Absent	Should be absent/g

Remarks: The product **Conforms / ~~Does not conforms~~** to Specification No.: K/FPS/488

Prepared by: Reviewed by: Approved:

Date: 05/04/2018 Date: 05/04/2018 Date: 05/04/2018