



Certificate of analysis

Product name: Sofosbuvir

Cas number: 190307-88-0

Molecular Formula: $C_{22}H_{29}FN_3O_9P$

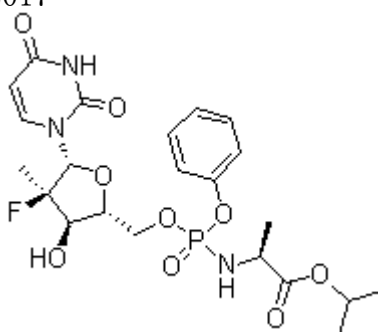
Molecular Weight: 529.45

Date of production: Mar. 25, 2017

Batch NO: 20170325

EXP DATE: Mar. 24, 2019

Chemical structure:



Items	Specifications	Test results
Description	White to off- white powder	white powder
Identification	The retention time of the sample should match with working standard	complies
water	$\leq 0.5\%$	0.14%
Max Single Impurity	$\leq 0.1\%$	0.08%
Total impurity	$\leq 1.0\%$	0.22%
Loss on Drying	$\leq 1.0\%$	0.15%
Residue on Ignition	$\leq 0.5\%$	complies
Heavy Metals	$\leq 20\text{ppm}$	complies
Enantiomer impurity	$\leq 0.1\%$	0.01%
Organic volatile solvents	DCM: $\leq 600\text{ppm}$ Ethyl acetate: $\leq 5000\text{ppm}$ Acetonitrile: $\leq 410\text{ppm}$ Methanol: $\leq 3000\text{ppm}$ Ethanol: $\leq 5000\text{ppm}$	complies
Purity(HPLC)	$> 99\%$	99.78%

Conclusion: It complies with the Enterprise Standard.

Analyst: Zhao

Checker: Liu

Q.C Director: Fang