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CERTIFICATE OF ANALYSIS

Product : Methyl *N*-[(2*S*)-1-[(6*S*)-6-[5-[9,9-Difluoro-7-[2-[(1*S*,2*S*,4*R*)-3-[(2*S*)-2-(methoxy carbonylamino)-3-methylbutanoyl]-3-azabicyclo[2.2.1]heptan-2-yl]-3*H*-benzimidazol-5-yl]fluoren-2-yl]-1*H*-imidazol-2-yl]-5-azaspiro[2.4]heptan-5-yl]-3-methyl-1-oxobutan-2-yl]carbamate Acetone (**Ledipasvir**)

CAS NO. : 1441674-54-9 Manufacturing Date : Mar.21, 2015
Quantity : 500g Retest Date : Mar.20, 2016
Batch NO.: 201503002 Report Date : Mar.23, 2015
Analysis NO. : 15002

Tests	Specifications	Results
Appearance	Off-white to white powder	Complies
Identification	A.IR: Similar to Reference Substance	Complies
	B. Retention Time :Similar to Reference Substance	
Impurity (by HPLC)	Any unknown impurity \leq 0.4%	0.28%
	Total impurities \leq 1.0%	0.73%
Residue solvents	Isopropyl acetate \leq 5000ppm	Undetected
	Ethyl acetate \leq 5000ppm	98ppm
	Acetone \leq 66324ppm	64800ppm
	N,N-Dimethyl formamide \leq 880ppm	Undetected
	1,4-Dioxane \leq 380ppm	Undetected
	Ethanol \leq 5000ppm	Undetected
	1,2-Dimethoxyethane \leq 100ppm	Undetected
Assay	\geq 99.0%	99.3%

The results above meet all requirements under **Ledipasvir Acetone** in **In-House Standard**

Analysed by:

检验02

Checked by:

复核01