🕻 Taizhou Crene Biotechnology Co., Ltd.

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Certificate of analysis

Productname: Tenofovir disoproxil fumarate

Cas number:202138-50-9

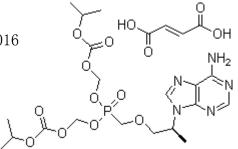
Molecular Formula: $C_{19}H_{30}N_5O_{10}PC_4H_4O_4$

Molecular Weight: 635.51

Date of production: Apr. 18, 2016

Batch N0:20160418

Exp Date: Apr. 17, 2018



Chemical structure:

Items	Specifications	Results
Appearance	White or slight white powder	white powder
Water	≤1.0%	0.31%
Identification	The same as Ref,Standard	Conforms
Clarity and color of soulution(1% sample in solution in methanol)	Should not more intense than the reference	Conforms
Solubility	Soluble in water:methanol(1:1)	Conforms
Sulphated ash	≤0.5%	0.06%
Heavy metal	≤10PPM	Conforms
Fumaric acid	17.5%~19.0%	18.3%
Enantomerc purity	S-isomer ≤1.0 %	0.01%
Related substances	Impurity A(Mone-pom PMPA)≤0.8%	0.26%
	PMPA≤0.15%	0.02%
	Impurity B≤0.15%	Conforms
	Impurity C≤0.15%	Conforms
	Specified unidentified impurity at RRT1.05≤0.15%	Conforms
	Chloromethyl isopropyl casbonate5 <0.10%	0.003%
	Unspecifiedim Purity≤0.10%	0.06%
	Total impurity≤2.50%	0.63%
Residual solvents	Isopropyl alcohol≤3000ppm	Conforms
	Dichloromethanel≤300ppm	Conforms
	Isopropyl acetate≤4000ppm	Conforms
	N-methyl pyrrolidone≤480ppm	Conforms
	Total residual solvents≤7780ppm	Conforms
Polymorphic identity	By differential scanning colorimetry	Conforms
	By X-ray powder diffraction	Conforms
Assay	98%~102%	99.4%有限

Conclusion: It complies with the Enterprise Standard.