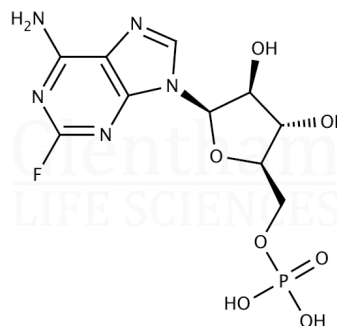


Certificate of Analysis

Product Name Fludarabine phosphate, USP
Glentham Code GP3476
CAS Number 75607-67-9
MDL Number MFCD00866418
Batch Number 158DTL

Molecular Weight 365.21
Molecular Formula $C_{10}H_{13}FN_5O_7P$
Storage Temp. -20°C



Property	Specification	Batch 158DTL
Physical Description	White powder	White powder
Identification (IR)	To conform to standard	Conforms
Chloride (Cl)	≤ 0.2%	0.1%
Sodium (Na)	≤ 0.2%	0.1%
Related Substances	≤ 1.9%	0.9%
Any Other Individual Impurity	≤ 0.1%	0.04%
Total Impurities	≤ 1.5%	1.1%
Total Alcohols	≤ 5.0%	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	+10.0 - +14.0 °	+14.0°
Water (KF)	≤ 3.0%	1.2%
Assay (HPLC)	98.0 - 102.0 %	99.5%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.1
Manufacture Date 2022-10-10
Re-Test Date 2030-02-07

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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