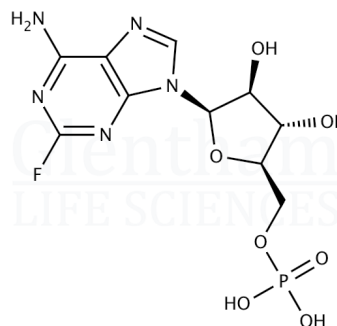


Certificate of Analysis

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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