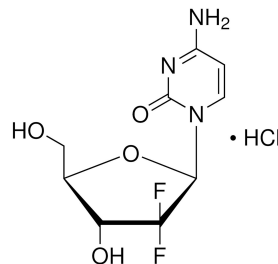


Certificate of Analysis

Product Name : Gemcitabine hydrochloride $\geq 98\%$ (HPLC)
Product Number : G6423-VAR
Batch Number : 0000081065
 Source Batch : 0000069596
 CAS Number : 122111-03-9
 Molecular Formula : $C_9H_{11}F_2N_3O_4 \cdot HCl$
 Formula Weight : 299.66
 Quality Release Date : 21 Aug 2019



Test	Specification	Result
Appearance (Color)	White to Beige	White
Appearance (Form)	Powder	Powder
Solubility (Turbidity)	Clear	Clear
Solubility (Color)	Conforms to Requirements	Colorless
Concentration	≥ 10.0 mg/ml	26.0 mg/ml
H ₂ O		
Purity (HPLC)	$\geq 97.5\%$	100.0 %
Identity	Confirmed	Confirmed
Water Content	0.0 - 3.0 mol	0.0 mol
Salt Content	0.9 - 1.1 mol	1.0 mol
Elemental Composition	Pass	Pass
Optical Rotation	40.0 - 50.0 °	45.4 °
c=1, H ₂ O		

Brendan Nye, QC Supervisor
 Quality Control
 Natick, Massachusetts
 US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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