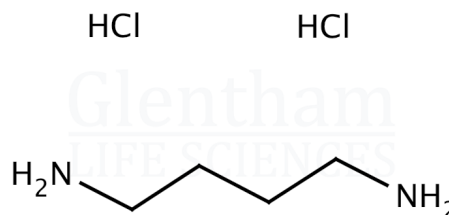


Certificate of Analysis

Product Name	Putrescine dihydrochloride
Glentham Code	GP9873
CAS Number	333-93-7
EINECS	206-375-9
MDL Number	MFCD00012526
PubChem SID	310279396
Batch Number	867IBV
Molecular Weight	161.08
Molecular Formula	$C_4H_{12}N_2 \cdot 2HCl$
Storage Temp.	+20°C



Property	Specification	Batch 867IBV
Physical Description	White to off-white crystalline powder or crystals	Off-white crystalline powder
Solubility (10% in water)	Clear, colourless solution	Clear, colorless solution
Residue on Ignition	≤ 0.2%	0.1%
Heavy Metals	≤ 20ppm	Conforms
Loss on Drying	≤ 0.5% (105°C)	0.24%
Assay	≥ 98.0% (dried basis)	99.3%

Specification Version	v1.1
Manufacture Date	2022-09-20
Re-Test Date	2031-03-20

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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