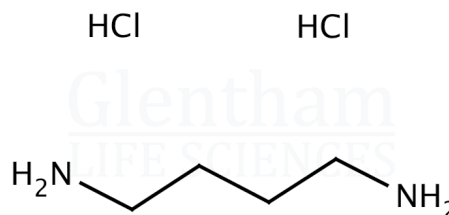


## Certificate of Analysis

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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