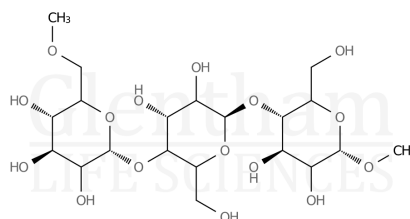


Certificate of Analysis

Product Name	Pullulan
Glentham Code	GC2572
CAS Number	9057-02-7
EINECS	232-945-1
MDL Number	MFCD00081940
Batch Number	849NOU

Molecular Weight	-
Molecular Formula	-
Storage Temp.	+20°C



Property	Specification	Batch 849NOU
Physical Description	White or almost white powder or fine granules	White powder
Solubility (5% in water)	Clear, viscous solution (on warming)	Clear, viscous solution (on warming)
pH (10% in water)	4.5 - 6.5	5.7
Viscosity	100 - 200 mm ² /s (10% in water, 30°C)	153mm ² /s
Loss on Drying	≤ 10.0%	0.8%
Residue on Ignition	≤ 1.5%	0.0%
Oligosaccharides	≤ 10.0% (mono + di)	8.0%

Specification Version	v1.1
Manufacture Date	2022-07-13
Re-Test Date	2031-05-22

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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