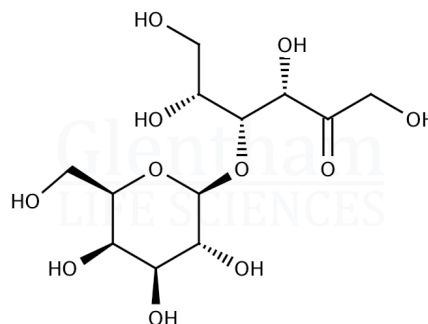


## Certificate of Analysis

Product Name	Lactulose, Ph. Eur. grade
Glentham Code	GC1952
CAS Number	4618-18-2
EINECS	225-027-7
MDL Number	MFCD00151469
PubChem SID	310275685
Batch Number	819EXJ
Molecular Weight	342.30
Molecular Formula	$C_{12}H_{22}O_{11}$
Storage Temp.	+20°C



Property	Specification	Batch 819EXJ
Physical Description	White to almost white crystalline powder	White crystalline powder
Identification	According to Ph. Eur.	Conforms
Solubility	Freely soluble in water, sparingly soluble in methanol, practically insoluble in toluene	Conforms
Solubility (6% in water)	Clear, colourless solution	Clear, colourless solution
pH	3.0 - 7.0 None	5.7
Specific Optical Rotation	-50.0 - -46.0 °	-49.8°
Impurity C	≤ 2.0% (lactose)	≤0.5%
Any Other Individual Impurity	≤ 0.5%	Conforms
Total Impurities	≤ 3.0%	Conforms
Methanol	≤ 50ppm	Conforms
Boron (B)	≤ 9ppm	Conforms
Water	≤ 2.5%	0.7%
Sulphated Ash	≤ 0.1%	Conforms
Total Aerobic Microbial Count	≤ 100CFU/g	Conforms
E. Coli	Absent	Absent
Assay (HPLC)	98.0 - 102.0 % (anhydrous basis)	100.5%
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms

Specification Version	v1.1
Manufacture Date	2022-11-01
Re-Test Date	2031-01-20

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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