

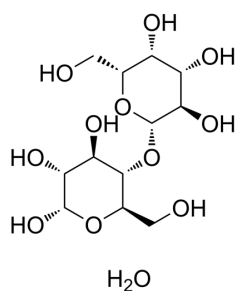
## $\alpha$ -Lactose (hydrate)

Cat. No.:	HY-W087904
CAS No.:	5989-81-1
Batch No.:	361751
Chemical Name:	$\alpha$ -D-Glucopyranose, 4-O- $\beta$ -D-galactopyranosyl-, hydrate (1:1)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{12}H_{24}O_{12}$
Molecular Weight:	360.31
Storage:	Powder      -20°C    3 years 4°C        2 years In solvent    -80°C    6 months -20°C    1 month

Chemical Structure:



### ANALYTICAL DATA

Appearance:	White to off-white (Solid)
$^1H$ NMR Spectrum:	Consistent with structure
Purity (NMR):	$\geq 98.0\%$
Residue on Ignition:	0.29%
Water(KF):	4.96%
Optical Rotation:	77.417° (C=10.0 g/100ml, H <sub>2</sub> O)
Conclusion:	The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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