

# Specification

## Technical Data Sheet

<b>Product Name</b>	D-(+)-Raffinose pentahydrate
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<b>Product No</b>	44163104
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<b>CAS Number</b>	17629-30-0
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<b>Storage Temperature</b>	Ambient
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<b>Molecular Weight</b>	594.51
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### Specification

<b>Appearance</b>	White powder
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<b>Heavy metals</b>	≤10ppm
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<b>Loss on Drying</b>	13.0-17.0%
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<b>Melting Point</b>	78 - 82°C
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<b>Total plate count</b>	≤1000 cfu/g
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<b>Appearance of Solution</b>	Clear and colourless
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<b>Assay (HPLC)</b>	≥98.0%
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## Specification

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<b>Bulk density</b>	0.40-0.70
<b>Microbial Limit (Escherichia Coli)</b>	ND
<b>Powder size</b>	≥95.0% through 30 mesh
<b>Purity (TLC)</b>	One spot
<b>Residue on Ignition</b>	≤0.1%
<b>Specific optical rotation</b>	$\alpha_{20}$ (c=10, H <sub>2</sub> O): +103 to +107
<b>Sulphated Ash</b>	≤0.1%
<b>Microbial Limit (Salmonella)</b>	ND
<b>Mould and Yeast</b>	≤100 cfu/g

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