

# BaseBulk

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Sorbitol E420(I) 20–40 Mesh
<b>Formula</b>	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>
<b>Delivery Lot</b>	25-000162
<b>Batch Number(s)</b>	2024101613
<b>Date of Production</b>	2024-10-16
<b>Best Before</b>	2028-10-16

### Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	White powder	Conforms
Solubility	Very soluble in water; slightly soluble in ethanol	Conforms
Melting range (°C)	89.0–102.0	Conforms
Appearance of solution	Clear	Conforms
Conductivity (µS/cm)	≤20.0	<20.0
pH (10% soln)	3.5–7.0	6.2
Granulation (mesh)	20–40	20–40
EU number	E420(I)	E420(I)

### Purity

Analysis Item	Specification	Result
Assay (min, %)	98.0	98.6
Moisture (max, %)	1.5	0.28
D-Mannitol (max, %)	1.0	0.65
Reducing sugars (max, %)	0.3	0.03
Total sugar (max, %)	0.5	0.24
Residue on ignition (max, %)	0.1	0.03
SO <sub>2</sub> (max, mg/kg)	10.0	<10.0
Sorbitol monobenzylidene derivative	According to Regulation 231/2012/EC	Conforms

**Inorganic Ions**

Analysis Item	Specification	Result
Chlorides (max, mg/kg)	50.0	<50.0
Sulphates (max, mg/kg)	50.0	<50.0

**Heavy Metals**

Analysis Item	Specification	Result
Lead (Pb) (max, mg/kg)	1.0	<1.0
Nickel (Ni) (max, mg/kg)	1.0	<1.0
Arsenic (As) (max, mg/kg)	1.0	<1.0
Cadmium (Cd) (max, mg/kg)	0.5	<0.5
Mercury (Hg) (max, mg/kg)	1.0	<1.0

**Microbiological Tests**

Analysis Item	Specification	Result
Total Plate Count (max, CFU/g)	1000	<1000
Yeast (max, CFU/g)	100	<10
Moulds (max, CFU/g)	100	<10
Salmonella (in 25 g)	Absent	Absent
Staphylococcus aureus (in 25 g)	Absent	Absent
E. coli (in 1 g)	Absent	Absent
Coliforms (in 1 g)	Absent	Absent