



SPECIFICATION SHEET

Product Name : D(+)-Glucose monohydrate, Ph Eur, BP, USP
Product Number : 927.013
Brand : ISOLAB
CAS Number : 14431-43-7
Formula : $C_6H_{12}O_6 \cdot H_2O$
Formula Weight : 198.17 g/mol

| TEST NAME | SPECIFICATION | UNIT |
|--|---------------------------|------------|
| Assay | 97.5 - 102.0 % | % |
| Identification test (A, B, C) | passes test | |
| Appearance | White, crystalline powder | |
| Appearance in Solution | passes test | |
| Acidity | ≤ 0.3 ml | ml |
| Conductivity | ≤ 20 $\mu S/cm$ | $\mu S/cm$ |
| Specific rotation | 52.6 - 53.2 ° | deg |
| Chloride (Cl) | ≤ 0.018 % | % |
| Sulphate (SO ₄) | ≤ 0.025 % | % |
| Heavy Metals (as Pb) | ≤ 0.0005 % | % |
| Pb (lead) | ≤ 0.00005 % | % |
| Ba (Barium) | passes test | |
| Ca (Calcium) | ≤ 0.02 % | % |
| As (Arsenic) | ≤ 0.0001 % | % |
| Total Aerobic microbial count | ≤ 1000 CFU/g | CFU/g |
| Escherichia Coli | absence in 10 g | |
| Salmonella | absence in 10 g | |
| Total yeast and mould count | ≤ 100 CFU/g | CFU/g |
| Related substance; Sum of impurities A (maltose) and B (isomaltose) | ≤ 0.4 % | % |
| Related substance; Impurity C (Maltotriose) | ≤ 0.2 % | % |
| Related substance; Impurity D (Fructose) | ≤ 0.15 % | % |
| Related substance; Unspecified impurities | ≤ 0.1 % | % |
| Related substance; Total of impurities | ≤ 0.5 % | % |

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| TEST NAME | SPECIFICATION | UNIT |
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| Foreign sugars, soluble starch, dextrans | passes test | |
| Soluble Starch, sulfites (EP) | $\leq 0.0015 \%$ | % |
| Soluble Starch, sulfites (USP) | passes test | |
| Residue on ignition | $\leq 0.1 \%$ | % |
| Water | 7.5 - 9.5 % | % |

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