

SPECIFICATION

Commodity: Dextrose anhydrous

Appearance	White to almost white crystalline powder
Identification	To comply IP, BP, USP tests
Solubility	Freely soluble in water, sparingly soluble in ethanol (96 per cent)
Specific optical rotation (20°C, 589 nm) (C=10, H ₂ O/dilute NH ₃) (Anhydrous substance)	+52.5° to +53.3°
Specific optical rotation (20°C, 589 nm) (C=10, 0.012N NH ₄ OH)	+52.6° to +53.2°
Appearance of solution	To comply BP test
Colour of solution	To comply USP test
Acidity or alkalinity	To comply IP,BP, USP test
Sulphite	Max 0.0015% (passes IP test)
Heavy metal (as Pb)	Max 0.0005%
Barium (Ba)	Passes IP, BP test
Calcium (Ca)	Passes BP test
Lead (Pb)	Max 0.00005%
Loss on drying (1 g, 105°C, 16h)	Max 0.5 %
Foreign sugars, soluble starch, dextrans	Max 1.0%
Bacterial endotoxin	Not more than 0.5 Endotoxin unit/ ml of a 5 % w/v solution

Stamp & Signature:

