



D-SORBITOL FOR MICROBIOLOGY

PRODUCTCODE	R02718	
SYNONYMS	(D-Glucitol,D-Sorbite)	
C.I.NO.	--	
CASRNO.	(50-70-4)	
ATOMICFORMULARFORMULA	$C_6H_{14}O_6$	
ATOMICFORMULARWEIGHT	182.17	
PROPERTIES	Odourless,hygroscopic,faintsweettaste	
PARAMETER	LIMIT	
Description	Whitecrystallinepowder.	
Solubility	10%solutioninwaterisclearandcolourless.	
Identification(ByFTIR)	Conforms.	
Identification	Passesest.	
Assay(Iodimetric,Calculatedonanhy.sub)	98.0-100.5%	
pH of(10%soln.inwater)	3.5-7.0	
Specificopticalrotation(α) $\frac{20}{D}$ (calculatedonanhy.subs.)	+4°to+7°	
Conductivity(20%Soln.inwater)	NMT20uScm-1	
Reducingsugar(calc.asGlucoseequiv)	0.2%	
MAXIMUMLIMITOFIMPURITIES		
Water	1.0%	
Residueonignition	0.1%	
AcidityorAlkalinity	Passesest.	
Chloride(Cl)	0.005%	
Nickel(Ni)	0.0001%	
Sulphate(SO ₄)	0.01%	
Arsenic(As)	0.0002%	
Heavymetals(asPb)	0.0005%	
Lead(Pb)	0.00005%	
Totalsugar	1.0%	
Residualsolvent	Meetstherequirements.	
Relatedsubstance:		
i]Individualimpurity	NMT2.0%	
ii]Sumofallimpurities	NMT3.0%	
Microbialcontamination(totalaerobics)	1000cfu/g	
TotalMouldsandyeast	100cfu/g	
Note(s):Assay(ifapplicable)methodmentioned.		
WARNING		IMDGCode:
Hazardstatements: Nothazardous.Nohazards.		UNNo. :
Precautionarystatements		IATA :
Prevention:-----		
Response:---		
Disposal: Dissolvethechemicalto bedisposed,inwaterandallowittorunto waste,dilutingwithlargequantitiesofwater.		
HazardPictogram(s):---		

Replace Date 1 April 2023

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