

RM570G D-Mannitol, Hi-AR™, Sterile (γ - irradiated)

Product Number	Packing
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Product Information

Product Code	: RM570G
Product Name	: D-Mannitol, Hi-AR™, Sterile (γ - irradiated)
Synonym	: Mannite
Molecular Formula	: C ₆ H ₁₄ O ₆
Molecular Weight	: 182.17
CAS No.	: 69-65-8
HS Code	: 2905 43 00
Shelf Life	: 2 years

Technical Specification

Appearance	: White - Cream powder.
Solubility	: Freely soluble in water, practically insoluble in ethanol(96%)
Reaction	: Reaction of 1M aqueous solution at 25°C.
pH	: min. 4.00 max. 7.50
Sterility Testing	: No growth is observed after 14 days for Bacteria at 30-35°C and for fungi at 20-25°C.
Cultural response	: Cultural response observed after an incubation at 35-37°C for 18-24 hours in Phenol Red Mannitol Broth (M570) using D-Mannitol,A.R.sterile(gamma irradiated) as an ingredient.
Escherichia coli ATCC 25922	
Growth	: Luxuriant
Acid	: Positive reaction, yellow colour.
Gas	: Positive reaction.
Klebsiella pneumoniae ATCC 13883	
Growth	: Luxuriant
Acid	: Positive reaction, yellow colour.
Gas	: Positive reaction.
Proteus vulgaris ATCC 13315	
Growth	: Luxuriant
Acid	: Negative reaction,no colour change.
Gas	: Negative reaction.
S.Typhimurium ATCC 14028	
Growth	: Luxuriant
Acid	: Positive reaction, yellow colour.
Gas	: Positive reaction.
Shigella flexneri ATCC 12022	
Growth	: Luxuriant
Acid	: Positive reaction, yellow colour.
Gas	: Negative reaction.

Chemical Analysis	:	
Chloride(Cl)	:	<=0.001%
Calcium(Ca)	:	<=0.001%
Iron(Fe)	:	<=0.0005%
Lead(Pb)	:	<=0.0005%
Arsenic (As)	:	<=0.0001%
Copper (Cu)	:	<=0.0005%
Sulfate (SO ₄)	:	<=0.005%
Melting Range	:	165.0 - 170.0°C
FTIR	:	Matches with the standard pattern
Specific optical rotation [alpha] 20/D	:	+ 137.0° to + 145.0°(c= 1% in ammonium molybdate solution at 25°C)
Water insoluble matter	:	<=0.01%
Reducing sugars(C ₆ H ₁₂ O ₆)	:	<= 0.05%
Acidity(CH ₃ COOH)	:	<=0.005%
Loss on drying(at 105°C,2hr)	:	<=0.050%
Assay(GC/HPLC)	:	99.50 - 102.00%

Risk and Safety Information

WGK	:	2
RTECS	:	OP2060000
Storage Temperature(°C)	:	Store below 30°C

Transport Information

Marine Pollutant	:	-
ADR/RID	:	Not Dangerous Goods
IMDG	:	Not Dangerous Goods
IATA	:	Not Dangerous Goods