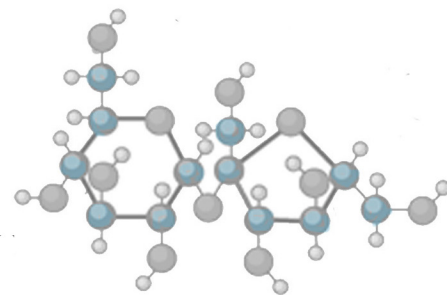


EXCIPIENTS

HIGH PURITY LOW ENDOTOXIN CARBOHYDRATES

KEY ADVANTAGES:

- ✓ Regulatory Compliance to ICH-Q7 API Standards
- ✓ Lot to Lot & Intra-Lot Consistency
- ✓ Chemical & Microbial Purity
- ✓ Reduced Sugar Polymer (Glucan/Oligomer) Content
- ✓ Low Reducing Sugar Content
- ✓ Consistently Superior Lyophilized Protein Drug Stabilization



CARBOHYDRATE PRODUCTS-LOW ENDOTOXIN

Product Code	Product Description	CAS NO.
G-105-1	D-Galactose , (Low Endotoxin)	59-23-4
G-105-6	D-Galactose , (Low Endotoxin), Bioburden Tested	59-23-4
G-106-1	D-Galactose , High Purity, (Low Endotoxin), USP/NF, EP, Plant-Derived	59-23-4
M-109-2	D-Mannitol , High Purity, (Low Endotoxin), USP, EP, JP	69-65-8
M-131-1	Maltose , High Purity, Hydrate (Low Endotoxin), USP/NF	6363-53-7
M-131-2	Maltose , High Purity, Hydrate (Low Endotoxin), USP/NF, Bioburden Tested	6363-53-7
S-108	Sodium Gluconate , (Low Endotoxin), USP	527-07-1
S-124-1	Sucrose , High Purity, (Low Endotoxin), USP/NF, EP, Cane Derived	57-50-1
S-124-2-MC	Sucrose , High Purity, (Low Endotoxin), USP/NF, EP, JP, Beet Derived	57-50-1
S-124-3	Sucrose , High Purity, (Low Endotoxin), USP/NF, EP, Carbon Treated	57-50-1
T-104-4	α,α-Trehalose Dihydrate , High Purity, (Low Endotoxin), USP/NF, EP	6138-23-4

CARBOHYDRATE PRODUCTS

Product Code	Product Description	CAS NO.
D-112	Dextrose , USP (Anhydrous)	50-99-7
D-112-1	Dextrose , ACS (Anhydrous)	50-99-7
F-101	Fructose , USP	57-48-7
F-104-1	L-Fucose	2438-80-4
G-105-3	D-Galactose , Plant Derived	59-23-4
G-106	D-Galactose , High Purity	59-23-4
G-110	D-Glucoheptono-1,4-lactone	60046-25-5
M-105	Maltose Monohydrate	6363-53-7
S-112	Sorbitol , NF	50-70-4
S-117	Sucrose , NF	57-50-1
S-117-1	Sucrose , ACS	57-50-1
T-104	α,α-Trehalose Dihydrate	6138-23-4

LACTATE PRODUCTS

Product Code	Product Description	CAS NO.
A-152	Ammonium Lactate	515-98-0
A-152-1	Ammonium Lactate (Pharmaceutical Grade)	515-98-0
S-110	Sodium DL-Lactate Solution 60%, USP	72-17-3