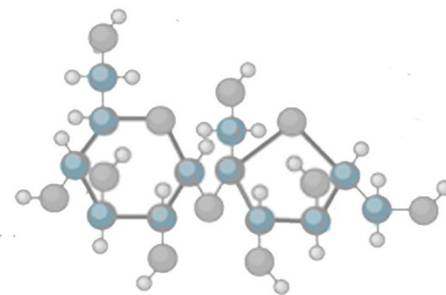


# EXCIPIENTS

## 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	<b>D-Galactose</b> , (Low Endotoxin)	59-23-4
G-105-6	<b>D-Galactose</b> , (Low Endotoxin), Bioburden Tested	59-23-4
G-106-1	<b>D-Galactose</b> , High Purity, (Low Endotoxin), USP/NF, EP, Plant-Derived	59-23-4
M-109-2	<b>D-Mannitol</b> , High Purity, (Low Endotoxin), USP, EP, JP	69-65-8
M-131-1	<b>Maltose</b> , High Purity, Hydrate (Low Endotoxin), USP/NF	6363-53-7
M-131-2	<b>Maltose</b> , High Purity, Hydrate (Low Endotoxin), USP/NF, Bioburden Tested	6363-53-7
S-108	<b>Sodium Gluconate</b> , (Low Endotoxin), USP	527-07-1
S-124-1	<b>Sucrose</b> , High Purity, (Low Endotoxin), USP/NF, EP, Cane Derived	57-50-1
S-124-2-MC	<b>Sucrose</b> , High Purity, (Low Endotoxin), USP/NF, EP, JP, Beet Derived	57-50-1
S-124-3	<b>Sucrose</b> , High Purity, (Low Endotoxin), USP/NF, EP, Carbon Treated	57-50-1
T-104-4	$\alpha,\alpha$ - <b>Trehalose Dihydrate</b> , High Purity, (Low Endotoxin), USP/NF, EP	6138-23-4

### CARBOHYDRATE PRODUCTS

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

### LACTATE PRODUCTS

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