

# PRODUCT SPECIFICATION

## SORBITOL LTS POWDER G-3



<b>Document</b> : Product Specification Sorbitol Powder G-3 GM	<b>Created By</b> : M. Zulkarnaen	<b>Effective date</b> : 18 Apr 2019
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<b>Manufacturer</b> : PT. Sorini Towa Berlian Corporindo	<b>Last Modified</b> : 7 Sep 2018	<b>Rev</b> : 3
<b>Plant</b> : Beji – Pasuruan, East Java – Indonesia	<b>Modified by</b> : Budi K.	

A Product Description	
<b>Generic name</b>	SORBITOL
<b>Product grade</b>	POWDER
<b>Product name</b>	SORBITOL LTS POWDER G-3
<b>Product code</b>	402

B Product Definition	
	D-Glucitol, D-Sorbitol

C Raw Material	
	Starch

D Product Information	
CAS	50-70-4
EINECS#	200-061-5
E#	420 (i)
Formula	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>

E Regulatory and Standard Compliance	
- BP, EP, USP/NF, FCC, E420, JECFA, KSFA, JSFA, JP	- FSSC 22000 - Kosher
- ISO 9001 : 2015	- Halal

F Country of Origin	
	Indonesia

G Packaging	
- Carton box	- Jumbo bag - Kraft Paper

H Label	
- Product name	- Lot number - Best by
- Manufacturer name	- Production date

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I Product Specification							
No	Parameter	unit	Min	Max	Reference Method	CoA	CoC
1	Description	-	White, hygroscopic powder, crystalline powder, flakes or granular having a sweet taste		Organoleptic	√	-
2	Identification						
	Test with catechol solution	-	A deep pink or wine-red color appears		Visual	-	√
	Retention time of major peak in the chromatogram	minute	The retention time of simple similar to standard solution		HPLC	-	√
	Test with ferrous sulfate and sodium hydroxide solution	-	Develop blue – green color, no turbidity		Visual	-	√
3	Water	%	-	1.0	Karl Fischer	√	-
4	Melting point	Deg.C	98	104	Melting point	√	-
5	Reducing sugar	%	-	0.2	Titration	√	-
6	Residue on ignition	%	-	0.1	Gravimetry	√	-
7	pH (10%) (pH of water 5.8 – 6.5)	-	3.5	7.0	pH Meter	√	-
8	Heavy Metal (as Pb)	ppm	-	5.0	AAS	√	-
9	Lead	ppm	-	0.5	AAS	√	-
10	Arsenic	ppm	-	1.3	AAS	√	-
11	Nickel (Ni)	ppm	-	1.0	AAS	√	-
12	Chloride	mg/kg	-	50	Spectrophotometry	√	-
13	Sulphate	mg/kg	-	60	Spectrophotometry	√	-
14	Diethylene glycol *	%	-	0.1	GC-MS	-	√
15	Ethylene glycol *	%	-	0.1	GC-MS	-	√
16	Conductivity 20% solution	µs/cm	-	20	Conductivity Meter	√	-
17	Assay						
	- D-Sorbitol	%	97.0	-	HPLC	√	-
	- Manittol (Information Only)	%	-	-	HPLC	√	-
18	Microbiology						
	- Total bacteria	cfu/ml	-	100	Pour Plate Method	√	-
	- Total mould and yeast	cfu/ml	-	50	Pour Plate Method	√	-
	- Eschericia coli	cfu/ml	Absent	-	Pour Plate Method	√	-
	- Salmonella	cfu/ml	Absent	-	Pour Plate Method	√	-
19	Bacterial endotoxin	IU/g	-	2.5	LAL-Test	√	-

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I	Product Specification						
20	Particle distribution						
	- 35 Me On	%	-	2	Sieve particle distribution	√	-
	- 80 Me Pass	%	-	20	Sieve particle distribution	√	-
21	Radioactive *	Bq/kg	-	50	Gamma Spectrophotometry	-	√
22	Pesticide *	ppm	Absent	-	LC-MS	-	√

Note :

\* Parameters on CoC column are not tested on each batch, have not been tested for the batch and represented values or ranges which is normally founded in this material (based on yearly third party analysis).