



PT. Sorini Towa Berlian Corporindo

SORBITOL & OTHER POLYOLS MANUFACTURER

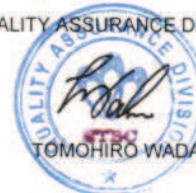
CERTIFICATE OF ANALYSIS

PRODUCT NAME : SORBITOL POWDER 20M (SUGAR SUBSTITUTE FOR DIABETICS) MANUFACTURING DATE : 25 November 2022
BATCH No. : 25112202 BEST BY : 23 November 2024
CUSTOMER : MCLS Europe B.V.
STANDARD COMPLIANCE : BP, EP, USP/NF, FCC, E420, JECFA, KSFA, JSFA, JP

TEST ITEM	RESULT	UNIT	SPECIFICATION	TEST METHOD
Description	Passed		White, hygroscopic powder, crystalline powder, flakes or granule, odorless and having a sweet taste	Organoleptic
Water	0.42	%	Not more than 1.0%	Karl Fischer
Melting point	98.0	°C	Not less than 98 °C and not more than 104 °C	Melting Point
Reducing sugar	0.048	%	Not more than 0.2%	Titration
Residue on ignition	0.0120	%	Not more than 0.1%	Gravimetry
pH (10%)	5.9		3.5 ~ 7.0	pH meter
Lead	0.000	ppm	Not more than 0.5 ppm	AAS
Heavy metals (as Pb)	0.011	ppm	Not more than 5.0 ppm	AAS
Arsenic	0.000	ppm	Not more than 1.3 ppm	AAS
Nickel (Ni)	0.020	ppm	Not more than 1.0 ppm	AAS
Free acid	0.16	ml	Not more than 0.5 ml 0.01 N NaOH	Titration
Chloride	2.25	ppm	Not more than 50 ppm	Spectrophotometry
Sulphate	3.74	ppm	Not more than 60 ppm	Spectrophotometry
Conductivity 20% solution	1.78	µs/cm	Not more than 20 µs/cm	Conductivity meter
D-Sorbitol	97.4	%	Not less than 97.0%	HPLC
D-Manitol	1.1	%	Information only	HPLC
Total bacteria	0	cfu/gr	Not more than 100 cfu/gr	Pour Plate Method
Total mould and yeast	0	cfu/gr	Not more than 50 cfu/gr	Pour Plate Method
Eschericia coli	Absent	cfu/gr	Absent	Pour Plate Method
Salmonella	Absent	cfu/gr	Absent	Pour Plate Method
Coliform	Absent	cfu/gr	Absent	Pour Plate Method
Identification				
(1) Test with catechol solution	Passed		A deep pink or wine-red color appears	Organoleptic
(2) HPLC sheet chromatogram	Passed		The retention time of the major peak from sample solution corresponds to that of the standard solution, as obtained in the assay.	HPLC

BEJI, 2 DECEMBER 2022

QUALITY ASSURANCE DIVISION



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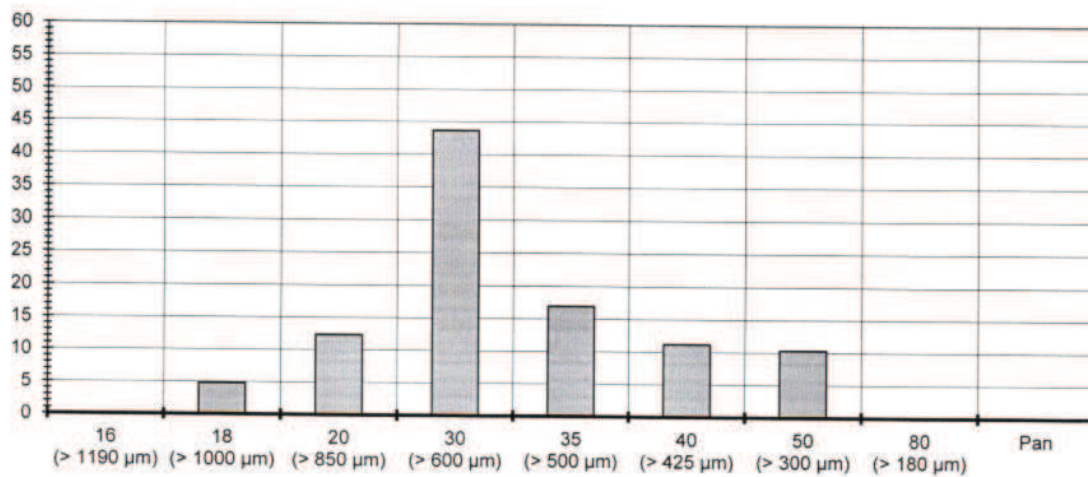
CERTIFICATE OF GRANULOMETRY

PRODUCT NAME : SORBITOL POWDER 20 M (SUGAR SUBSTITUTES FOR DIABETICS)
LOT NO. : 25112202

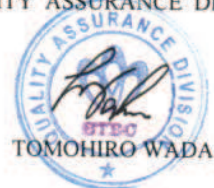
Mesh/Micron	SECT.%	AMOUNT %
16 (> 1190 μ m)	0.42	0.42
18 (> 1000 μ m)	4.84	5.26
20 (> 850 μ m)	12.37	17.63
30 (> 600 μ m)	43.68	61.31
35 (> 500 μ m)	16.95	78.26
40 (> 425 μ m)	11.21	89.47
50 (> 300 μ m)	10.33	99.80
80 (> 180 μ m)	0.09	99.89
Pan	0.11	100.00

SORBITOL POWDER 20 M

Item	Result	Standard
18 Me On(>1000 μ m)	5.26	20% Max
50 Me Pass(<300 μ m)	0.20	5 % Max



BEJI, 02 DECEMBER 2022
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TOMOHIRO WADA