

To: Surfactan S.A.

Product Name: Glucono Delta Lactone USP
Manufacture Date: Jan 12, 2025

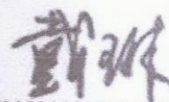
Batch No.: 20250112
Retest Date: Jan 11, 2027

CERTIFICATE OF ANALYSIS

Items of analysis	Specification	Result
Description	Colorless crystals or white powder	Conforms
Identification	Positive	Conforms
Solubility	Easily soluble in water, hard soluble in ethanol	Conforms
Mercury	0.1ppm Max.	NONE
Melting Point	152°C ± 2°C	151.0°C
Heavy Metals	0.002% Max.	<0.002%
Loss on drying	1.0% Max.	<0.3%
Moisture	0.5% Max.	0.07%
Lead	0.001% Max.	<0.0003%
Cadmium	2ppm Max.	NONE
Reducing substances	Positive	Conforms
Arsenic	1ppm Max.	<1ppm
Chloride	0.05% Max.	<0.003%
Calcium	0.05% Max.	<0.01%
Sulphate	0.02% Max.	<0.005%
Sulphate Ash	0.1% Max.	<0.1%
Assay	99.0%~101.0%	100.07%
pH Value(1% Solutions)	1.5-1.8	Comforms

Conclusion: Corresponding to the requirements of USP40.

For and on behalf of
SUZHOU NUTRIBUTE BIOTECHNOLOGY CO., LTD



Authorized Signature(s)

REF PT-25027-100 320038