

Certificate of Analysis

Product *Gamma-Butyrolactone (GBL)*
 CAS No. 96-48-0
 M.F. C₄H₆O₂
 M.W. 86.09
 N.W. 4,000.00kg
 G.W. 4,430.00kg

Batch Number 20210115
 Packing 200.00kg/ drum
 MFG Date Jan 15, 2021
 Analysis Date Jan 15, 2021
 Retest Date Jan 14, 2023

1

<u>Sr. No.</u>	<u>Items</u>	<u>Specification</u>	<u>Results</u>
01	Appearance	Colorless liquid	Colorless liquid
02	Assay, %	≥ 99.8	99.9
03	Water, Wt.-%	≤ 0.05	0.01
04	Colour, APHA	≤ 10	4
05	Butyric Acid, Wt.-%	≤ 0.03	0.01
06	Acid, Wt.-%	≤ 0.03	0.01
07	NO ₂ -, Wt.-ppm	≤ 0.05	0.01
08	Cu, Wt.-ppb	≤ 50	35
09	Fe, Wt.- ppb	≤ 50	28
10	Zn, Wt.- ppb	≤ 50	30
11	Pb, Wt.- ppb	≤ 50	25
12	K, Wt.- ppb	≤ 500	450
13	Na, Wt.- ppb	≤ 500	450
14	Cl, Wt.- ppb	≤ 300	280
15	SO ₄ ²⁻ , Wt.- ppb	≤ 1000	800

Prepared by Dong Mei

Checked by Wang Tianyi

Approved by Liu Wu

Conclusion The Quality of the above said is in conformity with **Electronic Grade**
 Storage Stored in dry and ventilation place, far from heat and water.
 COA Issuer Quality Control Team- Technology Department

