

Lonwin CERTIFICATE OF ANALYSIS

Product Name	2,2'-Bis(hydroxymethyl)butyric acid (DMBA)
Cas no	10097-02-6
Batch Number	20230329
Packing	In 25kgs net bag
Date Of Manufacture	March 29 2023
Date Of Reported	March 29 2023

This is to certify that the quality of the subject product is as follows:

Items	Specifications	Results
Apprearance	White crystal	White crystal
Assay	99%min	99.64%
Water	0.3%min	0.07%
Melting Point	108-115 ℃	110.6-111.6℃
Ash	0.03%max	0.010%
Residue Formaldehyde	0.03%max	0.010%
Acid value(mgkoh/g)	370-375	375
Hydroxyl Value (mgKOH/g)	728-782	752
Fe3+(ppm)	5 max	2
Na+ (ppm)	150max	45
K+(PPM)+	10max	1
SO4 (PPM)	10 max	2
Acetone-Et3N	Transparent	Transparent
Solube Experiment	Transparent	
Conclusion: The subject materi	al conforms to the required	d standards.

Authorized Signature & Stamps:李明 Analyst: 徐磊 Checke: 王文新