

## Certificate of Analysis

Product Name	Sulbutiamine	Batch No.	QY-SBLA20230312
Molecular Formula	C <sub>32</sub> H <sub>46</sub> N <sub>8</sub> O <sub>6</sub> S <sub>2</sub>	Manufacturing Date	2023-03-12
Issue Date	2018-12-05	Expiration Date	2026-03-11

Item	Specification	Result
<b>Assay (HPLC)</b>	98.0%	98.17%
Appearance	White to Light Yellow crystalline powder.	Conforms
Odor & Taste	Characteristic	Conforms
<b>Analytical Quality</b>		
Identification		Conforms
Water	≤1.0%	0.39%
Residue On Ignition	≤0.1%	0.04%
Melting Point	142~146°C	145°C
Sulphate	≤0.017%	Conforms
Chloride	≤0.018%	Conforms
<b>Residual Solvents</b>		
Ethanol	<0.5%	Conforms
Methylene chloride	≤0.06%	Conforms
<b>Related Substance</b>		
VB1	≤0.10%	Conforms
Total Impurities(HPLC)	≤2.0%	Conforms
<b>Total Heavy Metals</b>	≤20ppm	Conforms
<b>Conclusion</b>	Conform with specification	

Storage Cool & dry place.Do not freeze.Keep away from strong light and heat.

Shelf Life 24 months under the conditions above and in its original packaging.

Package In double sealed PP bags, 10/25kgs Drum.

Tested by: Mr Chen Date: 2023-03-16