

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	L-Carnosine		
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub>		
<b>Molecular Weight</b>	226.23		
<b>Batch Number</b>	20230618	<b>Manufacture Date</b>	20230618
<b>Report Date</b>	20230618	<b>Expiry Date</b>	20250617

Item of Analysis	Specification	Results
Appearance	Off-white or white powder	White power
Identification	Consistent with the reference substance main peak retention time	Conforms
Specific rotation [α] <sub>D20</sub>	+20.0° to +22.0°	+21.1°
Heavy metals	≤ 10ppm	Conforms
H	7.5 to 8.5	8.2
Loss on drying	≤ 1.0%	0.18%
Residue on ignition	≤ 0.10%	0.04%
Lead	≤ 3ppm	Conforms
Arsenic	≤ 1ppm	Conforms
Mercury	≤ 0.1ppm	Conforms
Cadmium	≤ 1ppm	Conforms
Melting point	250.0C to 265.0C	254.4C to 255.8C
Hydrazine	≤ 2ppm	Conforms
Bulk density	-----	0.25g/ml
Tapped density	-----	0.50g/ml
L-Histidine	≤ 0.3%	0.08%
Assay (HPLC)	99.0% to 101.0%	99.7%
Total aerobes counts	≤ 1000cfu/g	Conforms
Yeast and Mould	≤ 100cfu/g	Conforms
E.Coli	Negative	Negative
Salmonella	Negative	Negative

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

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