

# BaseBulk

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	L-Carnosine
Batch Number	354-24121502
Manufacture Date	Dec. 15, 2024
Expiry Date	Dec. 14, 2028

### Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	White or off-white crystalline powder	Complies
Loss on Drying	$\leq 1.0$ %	0.45 %
Residue on Ignition	$\leq 0.1$ %	0.01 %
Specific Rotation, C=1 [ $\alpha$ ] <sub>D20</sub>	+20.0° ~ +22.0°	+21.11°
Bulk Density	0.200–0.700 g/mL	0.2812 g/mL
Tapped Density	0.400–0.800 g/mL	0.5355 g/mL
Melting Point	250.0–265.0°C	250.8–255.4°C
pH	7.5–8.5	8.01

### Heavy Metals

Analysis Item	Specification	Result
Heavy Metals	$\leq 10$ mg/kg	Complies
Arsenic (As)	$\leq 1$ mg/kg	Complies
Lead (Pb)	$\leq 3$ mg/kg	Complies
Mercury (Hg)	$\leq 0.1$ mg/kg	Complies
Cadmium (Cd)	$\leq 1$ mg/kg	Complies

### Assay

Analysis Item	Specification	Result
L-Histidine	$\leq 1.0$ %	0.06 %
L-Carnosine	99.0–101.0 %	99.45 %

### Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	$\leq 1000$ CFU/g	150 CFU/g
Yeast & Mould	$\leq 100$ CFU/g	<10 CFU/g
Coliforms	$\leq 0.92$ MPN/g	Negative
Salmonella	Negative	Negative

### Packaging & Storage

Shelf Life	Four years when properly stored
------------	---------------------------------

Base Bulk