

CERTIFICATE of ANALYSIS

Rottach-Egern, on November 03rd 2022

General Information

Product Name:	L-Carnosin
CAS:	305-84-0
Item Number:	340 408
Batch Number:	2110111
Production Date:	10/11/2021
Best before:	10/10/2024
Smell	Odorless
Description	White/Yellow-white Powder

	Result	Specification	Method
Physical and Chemical Property			
Identification	Conforms	Positive	Visual
Purity	100.0 %	99.0 ~ 100.0%	HPLC
Drying loss	0.12 %	≤ 1.00 %	USP
Combustion residues	< 0.04 %	≤ 0.10 %	USP
Grain size	Conforms	100 % (100 Mesh)	USP
Bulk density	0.27 g/ml	-	USP
Melting point	Conforms	250 ~ 265°C	USP
pH (2 % water)	7.8	7.5 ~ 8.5	USP
L-Histidin	< 1.0 %	Conforms	HPLC
β-Alanin	< 0.1 %	Conforms	HPLC
Methanol	Conforms	≤ 100 ppm	GC
Ethanol	120 ppm	≤ 5000 ppm	GC
Hydrazin	Conforms	Not detectable	Colorimetry

Residue Analysis	≤ 10 ppm	≤ 10 ppm	USP
Lead (Pb)	< 3 ppm	≤ 3 ppm	USP
Arsenic (As)	< 1 ppm	≤ 1 ppm	USP
Cadmium (Cd)	< 1 ppm	≤ 1 ppm	USP
Mercury (Hg)	< 0.1 ppm	≤ 0.1 ppm	USP

Microbiological Tests

Total Plate Count	< 5 cfu/g	≤ 1000 cfu/g	USP
Total Yeast & Moald	< 5 cfu/g	≤ 100 cfu/g	USP
E. coli	Conforms	Negative	USP
Salmonella	Conforms	Negative	USP

Product Status

Conclusion:	Sample Qualified.
Storage:	Store sealed at room temperature, protected from moisture and infestation.
Shelf Life:	Minium 36 months under the conditions above.

We certify the true copy of the manufacturer's original specification. We have verified the results by an independent laboratory. Still, the user of the goods is obliged to carry out their own checks upon receipt of the goods.