

Certificate of Analysis
分析单INCI 名称:L-肌肽
Manufacture Date : 2025-06-29INCI name: L-Carnosine
Expiry Date:2027-06-28CAS No.: 305-84-0
Batch No : 20250606

检测项目Test Items	检测标准Specifications	检测结果Results
外观性状 Appearance	白色至类白色粉末 White to off-white powder	白色粉末 White powder
鉴别 Identification	在含量测定项下记录的色谱图中, 样品溶液和对照品溶液主峰保留时间基本一致 The principal peak in the chromatogram obtained with the test solution is similar in retention time the principal peak in the chromatogram obtained with reference solution.	符合规定/ Conforms
纯度/ Purity	≥99.0% (HPLC-UV)	99.91%
含量 (以干品计) Assay (on dry basis)	99.0%~101.0%	100%
L-组氨酸/ L-Histidine	≤0.2%	0.03%
β-丙氨酸/ β-Alanine	≤0.1%	符合规定/ Conforms
比旋度/ Specific Rotation	$[\alpha]_{D}^{20} +20^{\circ} \sim +22^{\circ}$	+21°
熔点/ Melting Point	245°C ~ 255°C	252°C
pH	7.5 ~ 8.5	8.2
干燥失重/ Loss on Drying	≤1.0%	0.1%
溶剂残留 Residual Solvents	甲醇 ≤200ppm Methanol ≤200ppm 乙醇 ≤5000ppm Ethanol ≤5000ppm	N.Q (< 10ppm) N.Q (< 10ppm)
炽灼残渣/Residue on Ignition	≤0.1%	0.06%
重金属/ Heavy Metal	≤10ppm	符合规定/ Conforms
铅/ Lead (Pb)	≤1.0ppm	< 0.1 ppm
镉/ Cadmium (Cd)	≤1.0ppm	
砷/ Arsenic (As)	≤1.0ppm	
汞/ Mercury (Hg)	≤0.1ppm	
菌落总数/ Total Plate Count	≤1000cfu/g	< 10 cfu/g
霉菌和酵母菌/ Mold &Yeast	≤100cfu/g	< 10 cfu/g
耐热大肠杆菌 Thermotolerant Coliforms	不得检出/g Negative/g	符合规定/ Conforms
金黄色葡萄球菌 Staphylococcus Aureus	不得检出/g Negative/g	符合规定/ Conforms
铜绿假单胞菌 Pseudomonas Aeruginosa	不得检出/g Negative/g	符合规定/ Conforms
结论: 符合QSC-305-84-0-A企业标准。 Conclusion: Comply to QSC-305-84-0-A Enterprise standard.		

贮存条件: 产品在干燥室温下密封保存。
Store Condition: Preserved in tight containers. Stored at room temperature. Keep in dry condition.
复测期: 两年
Retest Date: Two years