东北制药集团股份有限公司
NORTHEAST PHARMACEUTICAL GROUP CO., LTD
No.29 Shenxiliu Dong Road, Economic Technology Development District, Shenyang, .P.R China. Post code : 110869 FAX: 024-22724536 TEL:024-22721818

CERTIFICATE OF ANALYSIS

LEVOCARNITINE (L-CARNITINE BASE) EP

BATCH NUMBER	DY0172200205	**MANUFACTURE DATE**	Jun.3.2022
BATCH SIZE	1000kg	**TEST DATE OF APPLICATION**	Jun.21.2022
QUANTITY	40Drums	**RETEST DATE**	Jun.2.2024

	Analysis Items	Specifications	Analysis Results
1.	Characteristics	White or almost white,crystalline powder or colourless crystals, hygroscopic	White crystalline powder,hygroscopic
2.	Identification	IR Absorption: the spectrum obtained with the substance to be examined correspond with the spectrum obtained with the RS.	Complied
3.	Specific Rotation (on anhydrous substance)	-32.0°~ -29.0°	-31.2°
4.	Acidity or Alkalinity (pH)	6.5~8.5	7.6
5.	Assay (anhydrous substance)	98.0%~102.0%	99.7%
6.	Water Content	≤1.0%	0.17%
7.	Related Substances	Impurity A≤0.3% Any others≤0.10% Total Impurities other than impurity A≤0.5%	0.01% ＜0.02% ＜0.02%
8.	Sulphated Ash	≤0.1%	0.02%
9.	Chloride	≤200ppm	＜200ppm
10.	Sulphates	≤300ppm	＜300ppm
11.	Clarity of Solution	Clear	Clear
12.	Color of Solution	Colorless	Colorless

We, **Northeast Pharmaceutical Group Co.，Ltd.**, certify that this batch of **L-Carnitine Base** meets the requirements of **EP10.1**

Supervisor 路阳 2022.06.23
Final Batch Disposition

Approved **By:** 2022年6月23日

东北制药集团股份有限公司 质检专用章

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