



Certificate of Analysis

Product Name	Rosemary CO2 Extract Oil		
INCI Name:	ROSMARINUS OFFICINALIS (ROSEMARY) LEAF EXTRACT		
Plant Latin	Rosmarinus officinalis L.	Used part	LEAF
Extract Solvent	Dual extraction with water and ethanol	Specification	Std. to 22% Echinacosides, 5% Acteoside
Country of Origin	The plant material originated from Xinjiang, China, and the processing area is Xi'an, China.	Batch Quantity	525 kg
Batch Number	20260605	Manufacture Date	20260605
Report Date	20260605		

Items Tested	Specifications	Results	Test Method
Physical and Chemical Analysis			
Appearance	Colorless or light yellow volatile essential oil cool smell and camphor smell	Complies	Organoleptic examination
Solubility	Soluble in 90% ethanol	Conform	Visual Solubility Test
Content	Alpha-pinene, camphor and 1, 8-cineole	Conform	GC per USP/Ph.Eur. (
Relative Density	0.893 ~ 0.916	0.895	USP<851> Pycnometer Method
Folding	1.4670 ~ 1.4730	1.4700	USP<831> Refractometer
Rotation	-5° ~ +10°	Conform	USP<781> Polarimeter
Boiling Point	176°C	176°C	Distillation Test / ASTM D1078
Extract Solvents	Water and Ethanol	Complies	USP/Ph.Eur. HPLC
Physical Characteristics			
Heavy Metal	Measured in Pb, GT-16-5 test	Negative	ICP-MS / USP<232>
Loss on Drying	≤ 5.00%	3.64%	USP <731> / Ph.Eur. 2.2.32
Total ash	≤ 5.00%	2.84%	USP<561>
Bulk Density	0.45-0.60 g/mL	0.53 g/mL	USP <616> / Ph.Eur. 2.9.34
Residue of Solvents	Ethanol ≤ 3000 ppm	Conform	USP <467> / GC-MS
Heavy Metals (ICP-MS)			
Lead (Pb)	≤ 10 ppm	<0.5 ppm	ICP-MS
Arsenic (As)	≤ 2 ppm	<0.1 ppm	ICP-MS
Cadmium (Cd)	≤ 1 ppm	<0.1 ppm	ICP-MS
Mercury (Hg)	≤ 1 ppm	<0.05 ppm	ICP-MS
Microbial Limits			
Total Aerobic Microbial Count	≤ 1000 CFU/g	<10 CFU/g	USP <61> / Ph. Eur. 2.6.12
Total Yeast and Mold Count	≤ 100 CFU/g	<10 CFU/g	USP <61> / Ph. Eur. 2.6.12
E. coli	Absent in 1g	Absent	USP <62> / Ph. Eur. 2.6.13
Salmonella spp.	Absent in 10g	Absent	USP <62> / Ph. Eur. 2.6.13
Pseudomonas aeruginosa	Absent in 1g	Absent	USP <62> / Ph. Eur. 2.6.13

Quality Statement: This product is manufactured under a quality system compliant with cGMP principles for both food and cosmetic applications. Specifications and test methods are established with reference to the relevant ISO Standards, Chinese National Standards (GB), United States Pharmacopeia (USP), and European Pharmacopoeia (Ph. Eur.).

For cosmetic use, the batch fully complies with the requirements of EU Cosmetic Regulation (EC) No 1223/2009, China's Safety Technical Standards for Cosmetics (2015 Edition), and U.S. FDA cosmetic GMP guidelines. For food use, the batch meets the applicable requirements of China's national food safety standards (including GB 2762, GB 2763, GB 7101) and the U.S. FDA Food Safety Modernization Act (FSMA) and applicable food additive regulations.

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

Shelf Life: 24 months if stored under the above conditions and remains in original packaging.



