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CERTIFICATE OF ANALYSIS

Version# LAYN(JY) 385-C0

Product Name:	**Rhodiola Rosea Extract RHO12**	**Item Code:**	**RHO12**
Common Name:	Rhodiola Rosea Extract	**Batch Number:**	**RHO12-20100909**
Raw Material:	Dried Root	Manufacture Date:	October 9, 2020
Botanical Name(Raw Material):	Rhodiola Rosea L	Report Date:	October 14, 2020
Country of Origin (Raw Material):	China	Retesting Date:	October 8, 2023
Country of Origin (Manufacturing):	China	Extraction Solvent:	Ethanol & Water
Declarations:	Non-GMO, Non-Irradiated, Non-Eto	Carrier:	None
Storage:	Storage at room temperature, seal tightly, keep from moisture and strong light		

PARAMETER	SPECIFICATION	METHOD	RESULT
Organoleptic Test			
Color	Brown	Layn Sensory Testing Method	Complies
Appearance	Fine powder	Layn Sensory Testing Method	Complies
Odor & Taste	Characteristic without off-flavor	Layn Sensory Testing Method	Complies
Analytical Data			
Rosavins, %	≥ 3.0	Layn Rosavins Testing Method	3.15
Salidroside,%	≥ 1.0	Layn Salidroside Testing Method	1.58
Loss on Drying, %	≤ 5.0	GB 5009.3	2.84
Ash, %	≤ 5.0	GB 5009.4	2.56
Solvents Residue			
*Ethanol, mg/kg	≤ 3,000	CP 2015 0861	Complies
*Methanol, mg/kg	≤ 200	CP 2015 0861	Complies
Heavy Metals			
*Arsenic (As), mg/kg	≤ 1.0	GB 5009.268	Complies
*Lead (Pb), mg/kg	≤ 1.0	GB 5009.268	Complies
*Cadmium (Cd), mg/kg	≤ 0.3	GB 5009.268	Complies
*Mercury (Hg), mg/kg	≤ 0.1	GB 5009.268	Complies
Microbiological Control			
Total Aerobic Plate Count, cfu/g	≤ 1,000	GB 4789.2	<10
Yeast & Mold, cfu/g	≤ 100	GB 4789.15	<10
Coliforms, cfu/g	≤ 10	GB 4789.3	<10
*Escherichia Coli, 25g	Negative	GB 4789.38	Complies
*Staphylococcus Aureus, 25g	Negative	GB 4789.10	Complies
*Salmonella, 25g	Negative	GB 4789.4	Complies

Note:
The item marked with * is tested at a set frequency based on risk assessment.
Layn Internal Standard: Rhodiola Rosea Extract Quality Standard
GB: Chinese National Standard
CP: Chinese Pharmacopoeia

桂林莱茵生物科技股份有限公司
质检报告专用章

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No. LAYN(TY)033-B0