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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:	RHO12-20100908
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
<u>Organoleptic Test</u>			
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
<u>Analytical Data</u>			
Rosavins, %	≥ 3.0	Layn Rosavins Testing Method	3.16
Salidroside,%	≥ 1.0	Layn Salidroside Testing Method	1.60
Loss on Drying, %	≤ 5.0	GB 5009.3	2.77
Ash, %	≤ 5.0	GB 5009.4	2.50
<u>Solvents Residue</u>			
*Ethanol, mg/kg	≤ 3,000	CP 2015 0861	Complies
*Methanol, mg/kg	≤ 200	CP 2015 0861	Complies
<u>Heavy Metals</u>			
*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
<u>Microbiological Control</u>			
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
<u>Note:</u>			
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 Pharmacopeia			



Reviewed by: Wu Nianrong (QC Manager)



Approved by: Ou Daoying (QA Manager)

