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### CERTIFICATE OF ANALYSIS

Version# LAYN(JY) 469-C0

<b>Product Name:</b>	<b>Grape Seed Extract 95% Proanthocyanidins</b>	<b>Item Code:</b>	<b>GSE01</b>
Common Name:	Grape Seed Extract	<b>Batch Number:</b>	<b>GSE01-20091009</b>
Raw Material:	Dried Grape Seed	Manufacture Date:	September 10, 2020
Botanical Name(Raw Material):	Vitis vinifera L	Report Date:	September 15, 2020
Country of Origin (Raw Material):	China	Retesting Date:	September 9, 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
<b><u>Organoleptic Test</u></b>			
Color	Reddish 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
<b><u>Analytical Data</u></b>			
Proanthocyanidins, %	≥ 95.0	Layn proanthocyanidins Testing Method	98.81
Loss on Drying, %	≤ 5.0	GB 5009.3	3.95
Ash, %	≤ 5.0	GB 5009.4	0.30
<b><u>Solvents Residue</u></b>			
*Ethanol, mg/kg	≤ 3,000	CP 2015 0861	Complies
*Methanol, mg/kg	≤ 200	CP 2015 0861	Complies
<b><u>Heavy Metals</u></b>			
*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
<b><u>Microbiological Control</u></b>			
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
<b><u>Note:</u></b>			
The item marked with * is tested at a set frequency based on risk assessment.			
Layn Internal Standard: Grape Seed Extract Quality Standard			
GB: Chinese National Standard			
CP: Chinese Pharmacopoeia			



Reviewed by: Wu Nianrong(QC Manager)

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