

**Guilin Layn Natural Ingredients Corp.**

19 S. Renmin Road, Lingui, Guilin, Guangxi, China 541199
Website: www.layncorp.com
E-mail: info@layn.com.cn

Layn USA, Inc.

420 Exchange Suite No. 210 Irvine, CA 92602
Phone: 1-949-387-6840
E-mail: info@layn-usa.com

Layn Europe SRL.

c/o University Campus of Savona
Via Armando Magliotto 2 - Locatelli building
17100 Savona, Italy

SPECIFICATION

Version# LAYN (HZGG) 109-C1

Product Name: Rhamnose**Item Code:****HQU01****INCI Name:** Rhamnose**Shelf Life:****36 months****Declarations:** Non-GMO, Non-Irradiated, Non-Eto**Storage:** Storage at room temperature, seal tightly, keep from moisture and strong light

PARAMETER	SPECIFICATION	METHOD
<u>Organoleptic Test</u>		
Color	White to Off White	Layn Sensory Testing Method
Appearance	Crystalline powder	Layn Sensory Testing Method
Odor & Taste	Characteristic without off-flavor	Layn Sensory Testing Method
<u>Analytical Data</u>		
Rhamnose, as dry basis %	≥ 98.0	Layn Rhamnose Testing Method
Moisture, %	9.0 ~ 11.0	GB 5009.3
Residue on ignition,%	≤ 0.1	GB 5009.4
Specific Rotation,°	+7.8~8.6	Layn Specific Rotation Testing Method
*Melting Point, °C	86.0-96.0	Layn Melting Point Testing Method
<u>Heavy Metals</u>		
*Arsenic (As), mg/kg	≤ 1.0	GB 5009.268
*Lead (Pb), mg/kg	≤ 1.0	GB 5009.268
*Cadmium (Cd), mg/kg	≤ 0.3	GB 5009.268
*Mercury (Hg), mg/kg	≤ 0.1	GB 5009.268
<u>Microbiological Control</u>		
Total Aerobic Plate Count, cfu/g	≤ 500	GB 4789.2
Yeast & Mold, cfu/g	≤ 100	GB 4789.15
*Escherichia Coli, cfu/g	< 10	GB 4789.38
*Salmonella, 25g	Negative	GB 4789.4
<u>Note:</u>		
The item marked with * is tested at a set frequency based on risk assessment.		
Layn Internal Standard: Rhamnose Quality Standard		

Approved by: Ou Daoying(QA Manager)



Approval Date: March 21, 2025