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SPECIFICATION

Version# LAYN (GG) 1826-C0

Product Name:	**Ginger Extract 5% Gingerol**	**Item Code:**	**GIN02**
Common Name:	Ginger Extract	Shelf Life:	36 months
Raw Material:	Dried Rhizome of Ginger	Carrier:	Maltodextrin
Botanical Name (Raw Material):	Zingiber officinale Roscoe	Country of Origin (Raw Material):	China
Extraction Solvent:	Ethanol & Water	Country of Origin (Manufacturing):	China
Declarations:	Non-GMO, Non-Irradiated, Non-Eto		
Storage:	Storage at room temperature, seal tightly, keep from moisture and strong light		
CAS:	/		

PARAMETER	SPECIFICATION	METHOD
Organoleptic Test		
Color	Yellow	Layn Sensory Testing Method
Appearance	Fine powder	Layn Sensory Testing Method
Odor & Taste	Characteristic without off-flavor	Layn Sensory Testing Method
Analytical Data		
Gingerol, %	≥ 5.0	Layn Gingerol Testing Method
Loss on Drying, %	≤ 7.0	GB 5009.3
*Bulk Density, g/ml	≥0.20	CP 2020
*Tapped Density, g/ml	≥0.40	CP 2020
*particle size	100% through 20 Mesh	CP 2020 0982
*Solubility	Insoluble in water, soluble in ethanol and propylene glycol	Layn Solubility Testing Method
*Identify	complies with TLC	TLC
Solvents Residue		
*Ethanol, mg/kg	≤ 1,000	CP 2020 0861
*Methanol, mg/kg	≤ 10	CP 2020 0861
Heavy Metals		
*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
Microbiological Control		
Total Aerobic Plate Count, cfu/g	≤ 1,000	GB 4789.2
Yeast & Mold, cfu/g	≤ 100	GB 4789.15
Coliforms, cfu/g	≤ 10	GB 4789.3
*Escherichia Coli, 25g	Negative	GB 4789.38
*Staphylococcus Aureus, 25g	Negative	GB 4789.10
*Salmonella, 25g	Negative	GB 4789.4
PAHs 4(Benzo (a) anthracene、Chrysene、 Benzo (b) fluoranthracene、Benzo (a) pyrene**),** μg/kg	≤ 50	GC-MS
Benzo (a) pyrene, μg/kg	≤ 10	GC-MS
*Aflatoxins, ppb	< 4	CP 2020
*Aflatoxins B1, ppb	< 2	CP 2020
*pesticides	Complies to EC 839	GC
Extract Ratio, %	20:1	

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

Approved by: Ou Daoying (QA Manager) **Approval Date: September 23, 2020**

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No. LAYN(TY)032-B0