

CERTIFICATE OF ANALYSIS

Black ginger extract

Batch Number: 031249240816 Manufacture Date: Aug 16, 2024 Best Used Before: Aug 15, 2027

General Information			
Part used	Root	Solvents used	Water and ethanol
Latin Name	<i>Zingiber officinale Roscoe</i>	Country of origin	China
Carrier	None		
Items	Specification	Methods	Results
Physical & chemical			
Color	Brown	Organoleptic	Conform
Odor	Characteristic	Organoleptic	Conform
Appearance	Fine powder	Organoleptic	Conform
Analytical quality			
Identification	Identical to R.S. sample	HPTLC	Identical
Sieve analysis	100% through 80 mesh	Eur.Ph.<2.9.12>	Conform
Loss on drying	≤5.0%	Eur.Ph.<2.8.17>	3.17%
Total ash	≤10.0%	Eur.Ph.<2.4.16>	1.06%
Bulk density	40~60g/100mL	Eur.Ph.<2.9.34>	48g/100mL
Tap density	60~90g/100mL	Eur.Ph.<2.9.34>	78g/100mL
5,7 dimethoxyflavone	≥2.5%	HPLC	2.53%
Contaminants			
Lead (Pb)	≤3.0mg/kg	Eur.Ph.<2.2.58>ICP-MS	0.05mg/kg
Arsenic (As)	≤2.0mg/kg	Eur.Ph.<2.2.58>ICP-MS	0.013mg/kg
Cadmium (Cd)	≤1.0mg/kg	Eur.Ph.<2.2.58>ICP-MS	0.012mg/kg
Mercury (Hg)	≤0.1mg/kg	Eur.Ph.<2.2.58>ICP-MS	0.011mg/kg
Solvents residue	Meet Eur.Ph. Requirements	Eur.Ph.<2.4.24>	Conform
Pesticides residue	Meet Eur.Ph. Requirements	Eur.Ph.<2.8.13>	Conform
Sum PAHs 4*	≤50ppb	GC-MS/MS	≤50ppb
Benzo(a)pyrene	≤10ppb	GC-MS/MS	≤10ppb
ETO	≤0.01mg/kg	GC-MS/MS	Conform
Non-Irradiation	≤700	EN13751:2002<PSL>	322
Microbiological			
Total plate count	≤1000cfu/g	Eur.Ph. <2.6.12>	140cfu/g
Yeast & mold	≤100cfu/g	Eur.Ph. <2.6.12>	38cfu/g
E. Coli.	Negative in 10grams	Eur.Ph. <2.6.13>	Negative
Salmonella	Negative in 25grams	Eur.Ph. <2.6.13>	Negative

Conclusion: Qualified

* Sum PAHs 4 (Benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene)

Net weight: 10.0kgs/bag

Gross weight: 11.5Kgs±0.05kg/bag

36 months under 30 °C in a well-closed container and away from moisture, light, oxygen.