

CERTIFICATE OF ANALYSIS

Product Name:	Black garlic extract	Country of Origin:	China
Botanical Name:	Allium sativum L.	Batch Number:	KHHS231020
Plant Part Used:	Bulb	Manufacture Date:	OCT. 20, 2023
Quantity:	100kg	Expiry Date:	OCT. 19, 2025
Carrier:	Not More than 15% Maltodextrin	Solvent extraction:	Ethanol & Water

ITEM	SPECIFICATION	RESULTS	TESTING METHOD
PHYSICAL CONTROL			
Assay	SAC $\geq$ 1%	1.25%	HPLC
Extract ratio	35-40:1	Complies	-----
Ethanol to Water	90:10	Complies	-----
Identification	Positive	Complies	TLC
Appearance	Brown yellow Fine Powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Sulphated Ash	$\leq$ 5.0%	3.10%	USP
Loss on drying	$\leq$ 5.0%	2.43%	USP
Sieve Analysis	100% pass 80 mesh	Complies	80 mesh screen
Bulk density	0.40-0.60 g/ml	0.45g/ml	In-house Standard
CHEMICAL CONTROL			
Heavy Metals	$\leq$ 10ppm	Complies	USP
Arsenic(As)	$\leq$ 1 ppm	Complies	ICP-MS
Lead(Pb)	$\leq$ 1 ppm	Complies	ICP-MS
Cadmium(Cd)	$\leq$ 1 ppm	Complies	ICP-MS
Mercury(Hg)	$\leq$ 0.1ppm	Complies	ICP-MS
Residual Solvent:	Meet EP standard	Complies	(EU)2015/1933
Pesticides Residue:	Meet EP standard	Complies	(EU)2015/1933
Aflatoxins B1:	< 2.0ppb	Complies	(EU)2015/1933
Total aflatoxins (B1+B2+G1+G2)	< 4.0 ppb	0.4ppb	(EU)2015/1933
Benzo(a)pyrene	<10 ppb	2.6ppb	(EU)2015/1933
Benz(a)anthracene	<10 ppb	3.1ppb	(EU)2015/1933
Benzo(b)fluoranthene	<10 ppb	2.9ppb	(EU)2015/1933
Sum of PAHs	<50 ppb	15.4ppb	(EU)2015/1933
ETO	<10 ppb	ND	(EU)2015/1933
Alkaloid	<1 ug/kg	ND	(EU)2015/1933
MICROBIOLOGY CONTROL			

Total Plate Count	≤ 10000 cfu/g	Complies	CP2015
Yeast & Mold	≤ 300 cfu/g	Complies	CP2015
E.Coli	Negative	Complies	CP2015
Salmonella	Negative	Complies	CP2015

CONCLUSION	Conform with specification
Storage	Stored in dry and cool place, keep away from strong light and heat.
Packing	25kg/barrel, double plastic-bag inside, fiber drum outside,
Shelf life	Two years when properly stored

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