श्री गोगुन्दा गणपति नमः

VITAL EXTRACTSS

Suppliers of : Cold Pressed Oils | Essential Oils | Herbal Extracts (WS & OS) .

ANALYSIS REPORT OF : **ALLIUM SATIVUS EXTRACT (GARLIC)**

PART USED	**BULB/CLOVES**	**HERB RATIO**	**20:1**
BATCH NO.	**GRL AC 01 / APR 26**	**MFG DATE**	**APR 26**
BEST BEFORE	**3 YEARS FROM DATE OF MFG.**		
EXTRACTED BY	**METHANOL WATER**		

DETAILS OF ANALYSIS

Tests	Limits	Protocol	Result
Description	BROWN POWDER	Visual	**BROWN POWDER**
Organoleptic test	STRONG CHARACTRISITIC	Organoleptic	**STRONG CHARACTRISITIC**
Identifications	By TLC	STANDARD	**Complies**
Physico-chemical analysis			
MOISTURE (% w/w)	< 8.0	As per USP <921> Method III	**4.29**
Ash content (% w/w)	< 10.0	As per USP <561> Vegetable Drugs	**4.56**
Acid insoluble Ash (% w/w)	< 3.0		**0.80**
pH of 5% w/v solution	4.0 – 6.5	As per USP <791>	**COMPLIES**
Solubilities (% w/w)			
In water	> 70.0	By USP METHOD	**88%**
Particle Size			
Bulk Density (g/cc)	0.30 – 0.8	As per USP <616> Method - I	**0.55**
Trapped bulk density (g/cc)	0.40 – 1.0		**0.65**
Material passing through 40# BS/35 ASTM (% w/w)	> 99.0	As per USP <786> Particle Size description	**PASSES**
Heavy metal analysis			
Lead	< 10 ppm	AAS / ICP-ES	**< 2 PPM**
Cadmium	< 1 ppm		**< 0.1 PPM**
Arsenic	< 1 ppm		**<0.2 PPM**
Mercury	< 1 ppm		**< 0.2 PPM**
Microbiological analysis as per FIP Guidelines			
Total Viable Aerobic Count	< $5x10^4$ cfu g-1	As per WHO/PHARMA/92.559/Rev.1 Pg.49-52	**450 CFU/GM**
Total Enterobacteriaceae	<$5x10^2$ org g-1		**35 ORG/GM**
Total Fungal Count	<$5x10^2$ fs g-1		**25 FS/GM**
Test for Specific Pathogen As per FIP Guidelines			
E. coli (1g)	Absent		**ABSENT**
Salmonella Sp. (10g)			
S.aureus (1g)			
Mycotoxin analysis			
Aflatoxins (B1 + B2 + G1 + G2)	Absent	As per USP Test for Aflatoxins	**ABSENT**
Phytochemical analysis			
DI ALLYL DISULPHIDE AS A ALLICIN	> 2.5 %	BY GC METHOD	**2.58**