

CERTIFICATE OF ANALYSIS
HERBAL DRY EXTRACT (W.S)

Name of Product	: Ajwain/ Ajwain	Name of Customer	:
Botanical Name	: <i>Carum Copticum/Trachyspermum Ammi</i>	Product Code	: AB 1006
Part of Plant Used	: Seed	HSN Code	1302
CAS No.	: 8001-99-8	IR No.	: ABPL/HRB/000/19-20
Final Extract Ratio	: HIGHER, 10:1, 5:1, 3:1	Batch No.	: ABPL/HRB/000/19-20
Preparation Type	: Extraction	COA No.	: ABPL/000/ANA-HRB/000/19-20
Solvent Used for Extraction	: Aqueous/ Hydroalcoholic	Date of Analysis	:
Other Solvent (s) Used in Manufacturing	:	Mfg. Date	:
Standardization	: Volatile Oil	Exp. Date / Retest Date	: 2 years
Carrier / Additives	: Maltodextrin	Application	: Pharmaceuticals, Cosmetics, Nutraceuticals
Excipients Used	:		

Sr. No.	TEST	HIGHER	10:1	5:1	3:1
A	ORGANOLEPTIC CHARACTERISTICS				
1.	Color	Brown to Light Brown coloured fine Powder	Brown to Light Brown coloured fine Powder	Brown coloured fine Powder	Brown coloured fine Powder
2.	Odor	Characteristic	Characteristic	Characteristic	Characteristic
3.	Taste	Characteristic	Characteristic	Characteristic	Characteristic
B	PHYSICO-CHEMICAL PARAMETERS				
1.	Identification	By TLC	By TLC	By TLC	By TLC
2.	Loss on Drying at 105 °C (% w/w)	NMT 7 %	NMT 7 %	NMT 7 %	NMT 7 %
3.	Total Ash at 600 °C ± 25 °C (% w/w)	NMT 12%	NMT 12%	NMT 12%	NMT 12%
4.	Acid Insoluble Ash (% w/w)	NMT 2%	NMT 2%	NMT 2%	NMT 2%
5.	pH (1 % w/v Aqueous Solutions)	3 - 7	3 - 7	3 - 7	3 - 7
6.	Bulk Density – Tapped (g/ml) Bulk Density – Untapped (g/ml)	0.2 – 1.0 g/ml 0.2 – 0.9 g/ml	0.2 – 1.0 g/ml 0.2 – 0.9 g/ml	0.2 – 1.2 g/ml 0.2 – 0.9 g/ml	0.2 – 1.2 g/ml 0.2 – 0.9 g/ml
7.	Waters Soluble Extractive (% w/w)	NLT 70 %	NLT 70 %	NLT 70 %	NLT 70 %
8.	Alcohol Soluble Extractive 50 (% w/w)	NLT 70 %	NLT 70 %	NLT 70 %	NLT 70 %
9.	Mesh Size	60 - 80	60 – 80	60 – 80	60 – 80

Regd. Office & Works: Plot No.28-A,Gandhi Oil Mill Compound, Near BIDC Gorwa, Vadodara-390 016..



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10.	ASSAY OF ACTIVE : Volatile Oil(By Gravetimetric method)		0.08 - 0.1 %	0.03 - 0.05 %	0.01 - 0.03 %
C	HEAVY METALS - TOTAL	NMT 20 ppm	NMT 20 ppm	NMT 20 ppm	NMT 20 ppm
1.	Lead	NMT 10 ppm	NMT 10 ppm	NMT 10 ppm	NMT 10 ppm
2.	Arsenic	NMT 1 ppm	NMT 1 ppm	NMT 1 ppm	NMT 1 ppm
3.	Cadmium	NMT 0.3 ppm	NMT 0.3 ppm	NMT 0.3 ppm	NMT 0.3 ppm
4.	Mercury	NMT 1 ppm	NMT 1 ppm	NMT 1 ppm	NMT 1 ppm
D	MICROBIOLOGICAL ANALYSIS				
1.	Total aerobic count	NMT 1000 CFU/gm	NMT 1000 CFU/gm	NMT 1000 CFU/gm	NMT 1000 CFU/gm
2.	Yeast and Moulds	NMT 100 CFU/gm	NMT 100 CFU/gm	NMT 100 CFU/gm	NMT 100 CFU/gm
3	E. Coli	Absent	Absent	Absent	Absent
4	Pseudomonas Aeruginosa	Absent	Absent	Absent	Absent
5	Salmonella	Absent	Absent	Absent	Absent
6	Staphylococcus Aureus	Absent	Absent	Absent	Absent

OTHERS	
PACKAGING	Packed in food grade HDPE bags sealed in 1kg/2kg/5kg/25kg/50kg HDPE corrugated box/HDPE containers/ Open mouth carboys
STORAGE	Air tight container, protect from heat and moisture
SHELF LIFE	Best before 24 months under the specified storage conditions.
LABELLING	The label displays Product name, Lot number, Net weight, Gross weight, Date of analysis, Manufacturing Date, Expire Date and other Information / marks specified by the customer.
GMO STATEMENT	This product and the raw materials used to produce said product are free from GMO
HANDLING	Wear face shields/Mouth Cap/Goggles and hand gloves while handling.

OPINION OF THE ANALYST: The above material complies with the prescribed standards.

Prepared By

Checked by

Approved by