

Quality Evaluation Laboratory, Spices Board ,Mumbai

Details of the Analysis on various parameters showing the analytical charges, minimum quantity and number of days required for completion of analysis.

Sl. No.	Name of Analysis	Min. Qty. Reqd. In Gm	Charges Rs.	No. of days reqd.
PHYSICO-CHEMICAL ANALYSIS				
1	Agmark specifications	500	*	>
2	ASTA specifications	500 / 250X 10 Nos ***	*	1
3	Acid insoluble ash	250	450	3
4	Alcohol soluble extract	250	300	3
5	Bulk density / Litre weight of spices	1000	300	1
6	Capsaicin - HPLC method (%/SHU)	100	1800	4
7	Coumarin Content	100	1800	3
8	Chromate test (Qualitative)	100	350	2
9	Cold water soluble extract	100	350	4
10	Colour value (ASTA METHOD)	100	500	3
11	Curcumin (ASTA METHOD)	100	600	3
12	Excreta, mamalian	500/250	350	1
13	Excreta, others	500/250	350	1
14	Extraneous / foreign matter	500 / 250	385	1
15	Gingerols and Shogaols	100	2400	3
16	Insect defiled / infested	500 / 250	350	1
17	Light berries	250	350	1
18	Moisture (ASTA METHOD)	250	450	2
19	Mould (Physical)	250	350	1
20	Non - volatile ether extract	100	550	6

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21	Oleoresin (EDC extractables)	100	500	5
22	Other Seeds	100	385	1
23	Other Seeds in Cumin	100	385	1
24	Piperine (ASTA METHOD)	100	1000	3
25	Total ash	100	450	3
26	USFDA specifications	500/250x10nos	*	6
27	Volatile oil	200	450	3
28	Water soluble ash	100	550	4
29	Whole insects,dead (by count)	250	350	1

RESIDUAL ANALYSIS

30	Aflatoxin(B1,B2,G1,G2) [HPLC -METHOD]	250	2970	3
31	Heavy metals (Cd, Cr, Cu, Fe, Mg, Mo, Pb & Zn)	100	500##	5
32	Mineral oil in Black Pepper	500	600	2
33	Ochratoxin A [HPLC-METHOD]	250	3000	3
34	Organochlorine Pesticides Residues (Isomers of BHC, Endosulfan and DDT; Heptachlor Aldrin, Dieldrin, Endrin and Endrin aldehyde)	200	3000	6
35	Organophosphorous Pesticides Residues - (I) (Chlorpyrifos,Dimethoate, Disulfoton, Ethion, Methyl Parathion, Phorate, Parathion and Quinalphos)	200	3000	6
36	Organophosphorus Pesticides Residues (II) (Methyl Pirimiphos, Phosalone, Monocrotophos)	200	3000	6
37	*Pesticide Residues-III (Iprobenphos, Triazophos and Profenphos)	200	3000	6
38	*Pesticide Residues-IV (Ethion,Iprobenphos, Triazophos and Profenphos)	200	5280	6

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39	*Pesticide Residues-V (Profenphos,Bifenthrin,Triazophos ,Diethion and Endosulfan)	500	6600	6
40	Pesticide Residues-VI (Ethion,Iprobenphos,Triazophos,Profenophos,Phor at e,Parathion,Chlorpyriphos,Methyl Parathion	300	7700	6
41	* Pesticide Residues-VII (Profenofos,Triazophos,Endosulfans)	200	4180	6
42	Pyrethroid Pesticides Residues (Cypermethrin and Fenvalerate)	200	2400	6
43	Pesticide Residue-Phorate	100	1800	6
44	Pesticide residues. single compound (any of the above)	200	1800	6
45	Sudan - Dye (I,II,III & IV (HPLC METHOD)**	100	2640	2
46	Sudan - Dye (I,II,III & IV (LCMS/MS METHOD)	100	3300	2
47	Synthetic Dyes II (Sudan Red 7b,Sudan Orange G, Para Red,Rhodamine B and Butter Yellow(LC-MS/MS METHOD))	100	3000	2
48	Synthetic Dyes II - Single compound(any of the above)	100	1800	2
49	Sunset Yellow FCF in Sugar Coated Fennel	100	1980	2

MICROBIOLOGICAL ANALYSIS

50	Aerobic Plate Count (USFDA BAM)	100	600	3
51	Aerobic Spore Count (USFDA BAM)	100	600	4
52	Bacillus cereus (USFDA BAM)	100	1000	5
53	Bacillus cereus (AOAC Method)	100	1200	2
54	Clostridium perfringens (USFDA BAM)	100	2500	5
55	Coliforms (USFDA BAM)	100	550	5
56	Coliforms (AOAC Method)	100	900	2

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57	Enterobacteriaceae (USFDA BAM)	100	600	5
58	Enterobacteriaceae (AOAC Method)	100	1000	2
59	E.coli (USFDA BAM)	100	900	8
60	E.coli (AOAC Method)	100	900	2
61	Mould (USFDA BAM)	100	500	6
62	Salmonella (FDA BAM)	375	1870	8
63	Salmonella (AOAC OMA Method)	375	1870	3
64	Staphylococcus aureus (USFDA BAM)	100	900	5
65	Staphylococcus aureus (AOAC Method)	100	1000	2
66	Thermostable Bacteria (USFDA BAM)	100	600	3
67	Total Viable Count (AOAC Method)	100	900	2
68	Yeast (USFDA BAM)	100	500	6
69	Yeast and Mould (USFDA BAM)	100	500	6
70	Yeast and Mould (AOAC Method)	100	1200	3

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