

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.

SI No.	Name of Analysis	Min. Qty. Reqd. in Gm	¹ Charges Rs.	¹⁰ No of Days Required
1	Aerobic Spore Count	100	500	4
2	Agmark specifications	500	*	>
3	ASTA specifications	500 / 250X 10 Nos ***	*	1
4	Acid insoluble ash	250	400	3
5	Added Starch	100	300	2
6	Aflatoxin(B1,B2,G1,G2) [HPLC -METHOD]	250@	2250	3
7	Alcohol soluble extract	250	250	3
8	Bacillus cereus	100	1000	5
9	Bulk density / Litre weight of spices	1000	250	1
10	Capsaicin - HPLC method (%/SHU)	100@	1500	4
11	Calcium as Calcium Oxide	250	300	5
12	Chromate test (Qualitative)	100	300	2
13	Clostridium perfringens	100	2500	5
14	Cold water soluble extract	100	300	4
15	Coliforms	100	450	5
16	Colour value (ASTA METHOD)	100@	450	3
17	Common salt	100	400	3
18	Crocine	10	850	2
19	Crude fibre	100	600	5
20	Curcumin (ASTA METHOD)	100@	500	3
21	Enterobacteriaceae	100	500	5
22	Excreta, mamalian	500/250	300	1
23	Excreta, others	500/250	300	1
24	Extraneous / foreign matter	500 / 250	300	1
25	E. coli	100	900	8
26	Filth, heavy	100	500	2
27	Filth, light	100 #	500	5
28	Gingerols and Shogaols	100 @	2000	3
29	Heavy metals (Cd, Cr, Cu, Fe, Mg, Mo, Pb & Zn)	100@	500 ##	5
30	Heavy Metal : Arsenic	100	500	4
31	Heavy Metal : Mercury	100	500	4
32	Insect defiled / infested	500 / 250	300	1
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33	Light berries	250	300	1
34	Mineral oil in Black Pepper	500	500	2
35	Moisture (ASTA METHOD)	250	400	2
36	Mould (Microbiological)	100	400	6
37	Mould (Physical)	250	300	1
38	Non - volatile ether extract	100	450	6
39	Oleoresin (EDC extractables)	100	400	5
40	Ochratoxin A [HPLC-METHOD]	250@	2500	5
41	Other Seeds	100	300	1
42	Other Seeds in Cumin	100	300	1
43	Orange II	100	1750	2
44	Organochlorine Pesticides Residues (Isomers of BHC, Endosulfan and DDT; Heptachlor, Aldrin, Dieldrin, Endrin and Endrin aldehyde)	200@	2500	6
45	Organochlorine Pesticide Residue - Dicofof	200@	1500	6
46	Organophosphorous Pesticides Residues - (I) (Chlorpyrifos, Dimethoate, Disulfoton, Ethion, Methyl Parathion, Phorate, Parathion and Quinalphos)	200@	2500	6
47	Organophosphorus Pesticides Residues (II) (Methyl Pirimiphos , Phosalone, Monocrotophos)	200@	2500	6
48	*Pesticide Residues-III (Iprobenphos, Triazophos and Profenphos)	200@	2500	6
49	*Pesticide Residues-IV (Ethion, Iprobenphos, Triazophos and Profenphos)	200	4000	6
50	*Pesticide Residues-V (Profenphos, Bifenthrin, Triazophos, Diethion and Endosulfan)	500	5000	6
51	Pyrethroid Pesticides Residues (Cypermethrin and Fenvalerate)	200@	2000	6
52	Pesticide residues. single compound (any of the above)	200@	1500	6
53	Malathion	100	1500	7
54	Phorate	100	1500	7
55	Etrimphos	100	1500	7
56	Fenitrothion	100	1500	7
57	Phosmet	100	1500	7
58	Chlorfenvinphos	100	1500	7
59	Parathion	100	1500	7
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SI No.	Name of Analysis	Min. Qty. Reqd. in Gm	¹ Charges Rs.	¹⁰ No of Days Required
60	Lambda Cyhalothrin	100	1500	7
61	Chlorothalonil	100	1500	7
62	Azinphos Ethyl	100	1500	7
63	Alachlor	100	1500	7
64	Aldicarb	100	1500	7
65	Carbofuran	100	1500	7
66	Methomyl	100	1500	7
67	O Methoate	100	1500	7
68	Picrocrocine	10	850	2
69	Piperine (ASTA METHOD)	100@	850	3
70	Safranal	10	850	2
71	Salmonella	100	1700	8
72	Starch	100	700	5
73	Staphylococcus aureus	100	900	5
74	Sudan - Dye (I,II,III & IV (HPLC METHOD))**	100	2000	2
75	Sudan - Dye (I,II,III & IV (LC-MS/MS METHOD)	100	2500	2
76	Sulphite Reducing Clostridia	100	2500	5
77	Sulphur dioxide	200	700	4
78	Synthetic Dyes II (Sudan Red 7b,Sudan Orange G, Para Red,Rhodamine B and Butter Yellow(LC-MS/MS METHOD))	100	2250	2
79	Synthetic Dyes II - Single compound(any of the above)	100	1500	2
80	Sunset Yellow FCF in Sugar Coated Fennel	100	1500	4
81	Thermostable Bacteria	100	500	3
82	Total ash	100	400	3
83	Total plate count	100	500	3
84	USFDA specifications	500/250 X 10 nos **	*	6
85	Volatile oil	200@	400	3
86	Vanillin	30	1500	3
87	Vanillic acid	30	1500	3
88	P-Hydroxybenzoic acid	30	1500	3
89	P-Hydroxybenzaldehyde	30	1500	3
90	Water activity	100	700	2
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91	Water soluble ash	100	450	4
92	Whole insects, dead (by count)	250	300	1
93	Yeast (Microbiological)	100	400	6
94	Yeast and Mould (Microbiological)	100	400	6

Note:-

Analytical Charges revised with effect from 01-04-2014.

1. \$ Service tax @14% (or as applicable) will be charged extra as per Government norms.
2. > Depends on the number of parameters for individual spices and number of samples.
3. * Charges based on the parameter specified for each spice.
4. **Turmeric is analysed for Sudan I-IV by HPLC Method unless otherwise specified.
5. ***In the case of analysis for ASTA / USFDA parameters, sample size should be a minimum of 500 g for heavier items like pepper, ginger, turmeric etc. and 250 g sample for low density items like chilli and seed spices.
6. # Quantity for light filth analysis for Tamarind concentrate by AOAC method should be a minimum of 600g.
7. ##Analytical charges Rs. 500/- per element
8. @ In the case of analysis of oleoresin samples of spices for the above parameters a minimum of 50 g sample size is required and in case of coriander and herbs a sample size of 300 g is required.
9. The days required for the analysis will increase depending on the inflow of samples for analysis.

The samples may be sent to the Scientist D & Head, Quality Evaluation Laboratory, Spices Board, Sugandha Bhavan, Palarivattom, Kochi -682 025, Kerala, along with analytical charges in the form of D.D. drawn in favour of Secretary, Spices Board, Kochi-25.

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