

Quality Evaluation Laboratory, Spices Board, Cochin.

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	150	3
2	Agmark specifications	500	*	>
3	ASTA specifications	500 / 250X 10 Nos ***	*	1
4	Acid insoluble ash	250	250	3
5	Added Starch	100	300	2
6	Aflatoxin(B1,B2,G1,G2) [HPLC -METHOD]	250@	1500	3
7	Alcohol soluble extract	250	120	3
8	Bacillus cereus	100	350	5
9	Bulk density / Litre weight of spices	1000	100	1
10	Capsaicin - HPLC method (%/SHU)	100@	350	4
11	Chromate test (Qualitative)	100	100	2
12	Clostridium perfringens	100	500	5
13	Cold water soluble extract	100	120	4
14	Coliforms	100	220	4
15	Colour value (ASTA METHOD)	100@	180	3
16	Common salt	100	100	3
17	Crocine	10	180	2
18	Crude fibre	100	300	5
19	Curcumin (ASTA METHOD)	100@	250	3
20	Enterobacteriaceae	100	180	3
21	Excreta, mamalian	500/250	100	1
22	Excreta, others	500/250	100	1
23	Extraneous / foreign matter	500 / 250	100	1
24	E. coli	100	180	3
25	Filth, heavy	100	400	2
26	Filth, light	100 #	400	5
27	Gingerols and Shogaols	100 @	750	3
28	Heavy metals (Cd, Cr, Cu, Fe, Mg, Mo, Pb & Zn)	100@	120 ##	5
29	Heavy Metal : Arsenic	100	300	4
30	Heavy Metal : Mercury	100	300	4
31	Insect defiled / infested	500 / 250	100	1
32	Light berries	250	100	1

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SI No.	Name of Analysis	Min. Qty. Reqd. in Gm	¹ Charges Rs.	¹⁰ No of Days Required
33	Moisture (ASTA METHOD)	250	100	2
34	Mould (Microbiological)	100	120	5
35	Mould (Physical)	250	100	1
36	Non - volatile ether extract	100	150	6
37	Oleoresin (EDC extractables)	100	150	5
38	Organochlorine Pesticides Residues (Isomers of BHC, Endosulfan and DDT; Heptachlor, Aldrin, Dieldrin, Endrin and Endrin aldehyde)	200@	2000	6
39	Organochlorine Pesticide Residue - Dicofol	200@	800	6
40	Organophosphorous Pesticides Residues - (I) (Chlorpyrifos, Dimethoate, Disulfoton, Ethion, Methyl Parathion, Phorate, Parathion and Quinalphos)	200@	2000	6
41	Organophosphorus Pesticides Residues (II) (Methyl Pirimiphos, Phosalone, Monocrotophos)	200@	2000	6
42	Organophosphorus Pesticide Residues-III (Iprobenphos, Triazophos and Profenphos)	200@	2000	6
43	Pyrethroid Pesticides Residues (Cypermethrin and Fenvalerate)	200@	1000	6
44	Pesticide residues. single compound (any of the above)	200@	800	6
45	Picrocrocine	10	200	2
46	Piperine (ASTA METHOD)	100@	250	3
47	Safranal	10	180	2
48	Salmonella	100	420	6
49	Shigella	100	350	6
50	Starch	100	300	5
51	Staphylococcus aureus	100	420	5
52	Sudan - Dye (I,II,III & IV (HPLC METHOD))**	100	2000	2
53	Sudan - Dye (I,II,III & IV (LC-MS/MS METHOD))	100	2000	2
54	Sulphite Reducing Clostridia	100	600	5
55	Sulphur dioxide	200	300	4
56	Thermostable Bacteria	100	175	2
57	Total ash	100	150	3
58	Total plate count	100	150	2
59	USFDA specifications	500/250 X 10 nos **	*	6
60	Volatile oil	200@	100	3

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61	Vanillin	30	250	3
62	Vanillic acid	30	250	3
63	P-Hydroxybenzoic acid	30	250	3
64	P-Hydroxybenzaldehyde	30	250	3
65	Synthetic dyes I (Parared and Rhodamine B (HPLC METHOD))	100	1200	2
66	Synthetic dyes II (Sudan Red 7b, Sudan Orange G, Para Red, Rhodamine B and Butter Yellow (LC-MS/MS METHOD))	100	2000	2
67	Synthetic dyes I - Single compound (any of the above)	100	750	2
68	Water activity	100	250	2
69	Water soluble ash	100	200	4
70	Whole insects, dead (by count)	250	100	1
71	Yeast (Microbiological)	100	120	5
72	Yeast and Mould (Microbiological)	100	220	5

Note:-

1. Service tax @12% and Educational cess 3% (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. 120/- 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.
10. No. of working days required for analysis

The samples may be sent to the Senior Scientist(QC), Quality Evaluation Laboratory, Spices Board, Sugandha Bhavan, Palarivattom, Cochin -682 025, along with analytical charges in the form of cash/D.D. drawn in favour of secretary, Spices Board.

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