

## Quality Evaluation Laboratory, Spices Board, Chennai

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

SI No.	Name of Analysis	Min. Qty Reqd in Gm	Charges <sup>1</sup> (Rs)	No. Of Days Required
<b>Physico- Chemical Analysis</b>				
1	Acid Insoluble Ash	250	450	3
2	Added Starch	100	350	2
3	Alcohol Soluble Extract	250	300	3
4	Bulk Density/ Litre Weight of Spices	1000	300	1
5	Capsaicin –HPLC Method(%/SHU)	100	1800	4
6	Calcium as Calcium Oxide	250	350	5
7	Coumarin Content	100	1800	3
8	Chromate Test( Qualitative)	100	350	2
9	Cold Water Soluble Extract	100	350	4
10	Color Value (ASTA Method)	100	500	3
11	Common salt	100	450	3
12	Crocine	10	1000	2
13	Crude Fiber	100	700	5
14	Curcumin (ASTA Method)	100	600	3
15	Excreta, Mammalian	500/250	350	1
16	Excreta, Others	500/250	350	1
17	Extraneous/Foreign Matter	500/250	350	1
18	Filth, Heavy	100	600	2
19	Filth, Light	100#	600	5
20	Gingerols & Shogaols	100	2400	3
21	Insect Defiled/ Infested	500/250	350	1
22	Light Berries	250	350	1
23	Moisture (ASTA Method)	250	450	2
24	Mould( Physical)	250	350	1
25	Non-Volatile Ether Extract	100	550	6
26	Oleoresin(EDC Extractables)	100	500	5
27	Other Seeds	100	350	1
28	Other Seeds in Cumin	100	350	1
29	Picrocrocine	10	1000	2
30	Piperine (ASTA Method)	100	1000	3
31	Safranal	10	850	2
32	Starch	100	850	5
33	Total Ash	100	450	3
34	Volatile Oil	200	450	3
35	Vanillin	30	1800	3
36	Vanillic Acid	30	1800	3

**Quality Evaluation Laboratory, Spices Board, Chennai**

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

SI No.	Name of Analysis	Min. Qty Reqd (g)	Charges in Rs.	No. Of Days Required
37	P-hydroxybenzoic Acid	30	1800	3
38	P-hydroxybenzaldehyde	30	1800	3
39	Water soluble Ash	100	550	4
40	whole Insects, Dead (By Count)	250	350	1
<b>Residual Analysis</b>				
41	Aflatoxin(B1, B2, G1 & G2) (HPLC-Method)	250	2700	3
42	Heavy Metals (Cd, Cr, Cu, Fe, Mg, Mo, Pb & Zn)	100	500##	5
43	Mineral Oil in Black Pepper	500	600	2
44	Ochratoxin A(HPLC-Method)	250	3000	3
45	Organophosphorous Pesticides Residues-(I) (Chlorpyrifos, Dimethoate, Disulfoton, Ethion, Methylparathion, Phorate, Parathion & Quinalphos)	200	3000	6
46	*Pesticide Residues-III (Iprobenphos, Triazophos & Profenphos)	200	3000	6
47	Organophosphorous Pesticides Residues-(II) (Methylpirimiphos, Phosalone & Monocrotophos)	200	3000	6
48	*Pesticide Residues-IV (Ethion, Iprobenphos, Triazophos & Profenphos)	200	4800	6
49	*Pesticide Residues-V (Profenphos, Bifenthrin, Triazophos, Diethion & Endosulfan)	500	6000	6
50	Pesticide Residue- Malathion	100	1800	6
51	Pesticide Residue- Phorate	100	1800	6
52	Pesticide Residue- Etrimphos	100	1800	6
53	Pesticide Residue- Fenitrothion	100	1800	6
54	Pesticide Residue- Phosmet	100	1800	6
55	Pesticide Residue- Chlorfenvinphos	100	1800	6
56	Pesticide Residue- Parathion	100	1800	6
57	*Pesticide Residues-VI (Ethion, Iprobenfos, Triazophos, Profenfos, Phorate, Parathion, Chlorpyrifos & Methylparathion)	300	7000	6
58	Pesticide Residues. Single Compound( any of the above)	200	1800	6
59	Sudan – Dye( I,II,III & IV(HPLC Method)**	100	2400	2
60	Sudan – Dye( I,II,III & IV(LC-MS/MS Method))	100	3000	2
61	Synthetic Dyes II( Sudan Red 7b, Sudan orange G, Parared, Rhodamine B & Butter yellow (LC-MS/MS Method)	100	3000	2
62	Synthetic Dyes II-Single compound (Any of the above)	100	1800	2
63	Sunset Yellow FCF in Sugar Coated Fennel	100	1800	2
<b>Microbiological Analysis</b>				
64	Aerobic Plate Count	100	600	3
65	Aerobic Spore Count	100	600	4
66	Bacillus cereus	100	1000	5

**Quality Evaluation Laboratory, Spices Board, Chennai**

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

SI No.	Name of Analysis	Min. Qty Reqd in Gm	Charges in Rs.	No. Of Days Required
67	Bacillus cereus ( TEMPO Method)	100	1200	2
68	Coliforms	100	550	5
69	Coliforms ( TEMPO Method)	100	900	2
70	Enterobacteriaceae	100	600	5
71	Enterobacteriaceae (TEMPO Method)	100	1000	2
72	E. coli	100	900	8
73	E.coli (TEMPO Method)	100	900	2
74	Mould	100	500	6
75	Salmonella ( FDA BAM)	375	1700	8
76	Salmonella ( AOAC OMA Method)	375	1700	3
77	Staphylococcus aureus	100	900	5
78	Staphylococcus aureus (TEMPO Method)	100	1000	2
79	Thermostable Bacteria	100	600	3
80	Total Viable Count (TEMPO Method)	100	900	2
81	Yeast	100	500	6
82	Yeast & Mould	100	500	6
83	Yeast & Mould (TEMPO Method)	100	1200	3

**NOTE:-**

Analytical charges revised with effect from 01-08-2017

1. Service Tax @ 18.0% will be charge extra as per govt. norms.

2.\* Charges based on the parameter specified for each spice.

3.\*\* Turmeric is analyzed for Sudan I - IV by HPLC Method unless otherwise specified

4.# Quantity for light filth analysis for tamarind concentrate by AOAC Method should be a minimum of 600 g

5. ## Analytical charges Rs.500 /- per element.

6. In the case of analysis of oleoresin samples of spice of the above parameters a minimum of 50 g sample is required & in case of coriander and herbs, a sample size of 300 g is required.

7. The days required for the analysis will increase depending on the inflow of sample for analysis.

8.The samples may be send to the Deputy Director, Regional Office ,Spices Board, Plot No R-11, North end Road, Sipcot Industrial Complex, Gummidipoondi, Tamil Nadu ,601201 along with analytical charges in the form of D.D . drawn in favor of Secretary, Spices Board. Kochi-25