

### 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
<b>PHYSICO-CHEMICAL ANALYSIS</b>				
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	350	1
15	Gingerols and Shogaols	100	2400	3
16	Insect defiled / infested	500 / 250	350	1
17	Light berries	250	350	1
18	Mould (Physical)	250	350	1
19	Non - volatile ether extract	100	550	6
20	Oleoresin (EDC extractables)	100	500	5
21	Other Seeds	100	350	1
22	Other Seeds in Cumin	100	350	1

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23	Piperine (ASTA METHOD)	100	1000	3
24	Total ash	100	450	3
25	USFDA specifications	500/250x10no s	*	6
26	Volatile oil	200	450	3
27	Water soluble ash	100	550	4
28	Whole insects,dead (by count)	250	350	1
<b>RESIDUAL ANALYSIS</b>				
29	Aflatoxin(B1,B2,G1,G2) [HPLC -METHOD]	250	2700	3
30	Heavy metals (Cd, Cr, Cu, Fe, Mg, Mo, Pb & Zn )	100	500##	5
31	Mineral oil in Black Pepper	500	600	2
32	Ochratoxin A [HPLC-METHOD]	250	3000	3
33	Organochlorine Pesticides Residues (Isomers of BHC, Endosulfan and DDT; Heptachlor, Aldrin, Dieldrin, Endrin and Endrin aldehyde)	200	3000	6
34	Organophosphorous Pesticides Residues - (I) (Chlorpyriphos,Dimethoate, Disulfoton,Ethion, Methyl Parathion, Phorate, Parathion and Quinalphos)	200	3000	6
35	*Pesticide Residues-III (Iprobenphos, Triazophos and Profenphos)	200	3000	6
36	Organophosphorus Pesticides Residues (II) ( Methyl Pirimiphos ,	200	3000	6

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	Phosalone, Monocrotophos)			
37	*Pesticide Residues-IV (Ethion,Iprobenphos,Triazophos and Profenphos)	200	4800	6
38	*Pesticide Residues-V (Profenphos,Bifenthrin,Triazophos ,Diethion and Endosulfan)	500	6000	6
39	Pyrethroid Pesticides Residues (Cypermethrin and Fenvalerate)	200	2400	6
40	Pesticide Residue-Phorate	100	1800	6
41	*Pesticide Residues- VI(Ethion,Iprobenphos,Triazophos ,Profeno phos,Phorate,Parathion,Chlorpyrip hos,Methyl Parathion	300	7000	6
42	Pesticide residues. single compound (any of the above)	200	1800	6
43	Sudan - Dye (I,II,III & IV (HPLC METHOD))**	100	2400	2
44	Sudan - Dye (I,II,III & IV (LC- MS/MS METHOD)	100	3000	2
45	Synthetic Dyes II (Sudan Red 7b,Sudan Orange G, Para Red,Rhodamine B and Butter Yellow(LC-MS/MS METHOD))	100	3000	2
46	Synthetic Dyes II - Single compound(any of the above)	100	1800	2
47	Sunset Yellow FCF in Sugar Coated Fennel	100	1800	2

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### MICROBIOLOGICAL ANALYSIS

48	Aerobic Plate Count	100	600	3
49	Aerobic Spore Count	100	600	4
50	Bacillus cereus	100	1000	5
51	Clostridium perfringens	100	2500	5
52	Coliforms	100	550	5
53	Enterobacteriaceae	100	600	5
54	E.coli	100	900	8
55	Mould	100	500	6
56	Salmonella (FDA BAM)	375	1700	8
57	Salmonella(AOAC OMA Method)	375	1700	3
58	Staphylococcus aureus	100	900	5
59	Thermostable Bacteria	100	600	3
60	Yeast	100	500	6
61	Yeast and Mould	100	500	6

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Note:-

- 1 . Analytical Charges revised with effect from 01-08-2017  
Service tax @18.0% 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,tumeric 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 Deputy Director, Spices Board, EL-184,TTC Industrial area, Mahape,Navi Mumbai-400 710, Maharashtra. along with analytical charges in the form of D.D. drawn in favour of Spices Board.

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