

Quality Evaluation Laboratory, Spices Board, Head Office, Kochi				
Details of various parameters showing the analytical charges, minimum quantity, and number of days required for completion of customer sample analysis				
SI No.	Name of Analysis	Analytical Charge ¹ (Rs)	Minimum Quantity Required for Analysis ²	No. of days required for Analysis ³
PHYSICO-CHEMICAL ANALYSIS				
1.	Acid insoluble ash	450	100 g	5
2.	Added Starch	350	100 g	5
3.	Alcohol soluble extract	300	100 g	5
4.	Bulk density /Litre weight of spices	300	1000g	2
5.	Total Capsaicinoids - HPLC method (%/SHU)	1800	200 g	4
6.	Calcium as Calcium Oxide (Qualitative)	350	100 g	3
7.	Coumarin Content in cassia and cinnamon	1800	100 g	4
8.	Chromate test (Qualitative)	350	100 g	2
9.	Cold water soluble extract	350	100 g	5
10.	Colour value of chillies (ASTA Method)	500	100 g	3
11.	Common salt	450	100 g	2
12.	Crocine in saffron	1000	5 g	4
13.	Crude fibre	700	200 g	5
14.	Curcumin in turmeric (ASTA Method)	600	100 g	3
15.	Excreta, Mammalian	350	200 g	3
16.	Excreta, others	350	200 g	3
17.	Extraneous / foreign matter	385	200 g	3
18.	Filth, heavy	600	200 g	3
19.	Filth, light ⁶	600	200 g	3
20.	Gingerols and shogaols in ginger	2400	100 g	5
21.	Insect defiled / infested	350	200 g	3
22.	Light berries in black pepper	350	200 g	3
23.	Moisture (ASTA Method)	450	200 g	4
24.	Moisture and volatile matter in saffron	450	10 g	4
25.	Mould (Physical)	350	200 g	3
26.	Non - volatile ether extract	550	200 g	5
27.	Oleoresin (EDC extractables)	500	200 g	5
28.	Oleoresin (EDC extractables in Black Pepper)	500	200 g	5
29.	Other Seeds in Cumin	385	200 g	3

SI No.	Name of Analysis	Analytical Charge ¹ (Rs)	Minimum Quantity Required for Analysis ²	No. of days required for Analysis ³
30.	Picrocrocin in saffron	1000	5 g	4
31.	Piperine in black pepper (ASTA Method)	1000	100 g	5
32.	Piperine in black pepper [ISO 5564 Method]	1000	100 g	5
33.	Safranal in saffron	850	5 g	4
34.	Starch	850	200 g	5
35.	Sulphur dioxide	850	100 g	5
36.	Total ash	450	100 g	5
37.	Volatile oil	450	200 g	4
38.	Vanillin	1800	100 g	4
39.	P-Hydroxybenzoic acid	1800	100 g	4
40.	P-Hydroxybenzaldehyde	1800	100 g	4
41.	Vanillic acid	1800	100 g	4
42.	Water soluble ash	550	100 g	5
43.	Whole insects, dead (by count)	350	200 g	3
RESIDUE ANALYSIS				
44.	Aflatoxin (B1, B2, G1, G2) [HPLC - METHOD]	3000	200 g	3
45.	Ethylene Oxide (As a sum of ethylene Oxide and 2-Chloroethanol)	2750	100 g	3
46.	Heavy metals (lead, Magnesium, chromium, iron, nickel, copper, zinc, arsenic, molybdenum, cadmium, mercury)	2500	100 g	5
47.	Heavy metals - for any one of the metal	500	100 g	5
48.	Ochratoxin A [HPLC-METHOD]	3000	200 g	3
49.	Pesticides (OC): Organochlorine Pesticides Residues (Isomers of BHC, Endosulfan and DDT; Heptachlor, Aldrin, Dieldrin, Endrin and Endrin aldehyde)	3600	100 g	6
50.	Pesticides -I: Organophosphorous Pesticides Residues - (I) (Bifenthrin, Chlorpyrifos, Dimethoate, Disulfoton, Ethion, Iprobenfos, Methyl Parathion, Phorate, Parathion, Profenofos, Quinalphos, and Triazophos)	3600	100 g	6
51.	Pesticides VI: Organophosphorus Pesticides Residues (VI) for export to Japan (Ethion, Iprobenfos, Triazophos, Profenofos, Phorate, Parathion, Chlorpyrifos, & Methyl Parathion)	3100	100 g	6

SI No.	Name of Analysis	Analytical Charge ¹ (Rs)	Minimum Quantity Required for Analysis ²	No. of days required for Analysis ³
52.	Pesticide residues in cumin for export to China (Disulfoton, Acephate, Profenofos, Chlorpyrifos, Carbosulfan, Cypermethrin isomers, Malathion, Carbendazim, & Cyfluthrin isomers)	3600	100 g	6
53.	Pesticide Residues in Cardamom for Saudi Arabia. (Acetamiprid, Lambda-cyhalothrin, Cypermethrin isomers, Profenofos, Triazophos, & Dithiocarbamates)	3100	100 g	6
54.	Pesticide residues-VIII A (see Annexure I)	3600	100 g	6
55.	Pesticide residues-VIII B (see Annexure II)	5700	100 g	6
56.	Pesticide residues-up to 5 (any compounds)	2500	100 g	6
57.	Sudan -Dye (I, II, III & IV) [LC-MS/MS Method]	3300	100 g	3
58.	Synthetic Dyes II (Sudan Red 7b, Sudan Orange G, Para Red, Rhodamine B and Butter Yellow (LC-MS/MS Method))	3000	100 g	5
59.	Synthetic Dyes II - Single compound (any of the above)	1800	100 g	5
60.	Sunset Yellow FCF in Sugar Coated Fennel	1800	100 g	5
MICROBIOLOGICAL ANALYSIS				
61.	Aerobic Plate Count	600	100 g	3
62.	Aerobic Spore Count	600	100 g	4
63.	<i>Bacillus cereus</i>	1000	100 g	5
64.	<i>Bacillus cereus</i> (AOAC Performance Tested)	1200	100 g	2
65.	<i>Clostridium perfringens</i>	2500	100 g	5
66.	Coliforms	550	100 g	5
67.	Coliforms (AOAC Performance Tested)	900	100 g	2
68.	Enterobacteriaceae	600	100 g	5
69.	Enterobacteriaceae (AOAC Performance Tested)	1000	100 g	2
70.	<i>E.coli</i>	900	100 g	8
71.	<i>E.coli</i> (AOAC Method)	900	100 g	2
72.	Mould	500	100 g	6
73.	<i>Salmonella</i> (FDA BAM)	1700	375 g	8
74.	<i>Salmonella</i> (AOAC OMA Method)	1870	375 g	3
75.	<i>Salmonella</i> (ISO Method)	1700	375 g	8
76.	<i>Staphylococcus aureus</i>	900	100 g	5
77.	<i>Staphylococcus aureus</i> (AOAC Performance Tested)	1000	100 g	2
78.	Sulphite Reducing <i>Clostridia</i>	2500	100 g	5
79.	Total Viable Count (AOAC Method)	900	100 g	2

SI No.	Name of Analysis	Analytical Charge ¹ (Rs)	Minimum Quantity Required for Analysis ²	No. of days required for Analysis ³
80.	Yeast	500	100 g	6
81.	Yeast and Mould	500	100 g	6
82.	Yeast and Mould (AOAC Performance Tested)	1200	100 g	3

Note:-

- Charges based on the parameter specified for each spice.
- Depends on the number of parameters for individual spices and number of samples.
- No of days required for a parameter is indicative only. The time required for the sampling will be extra.
- Microbiological parameters by AOAC method/AOAC Performance tested TEMPO method (Automated, fast analytical, validated methods which are internationally accepted). For further technical details on AOAC Method, please contact email ID: srilatha.cm@spicesboard.gov.in
- 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.
- Quantity for light filth analysis for Tamarind concentrate by AOAC method should be a minimum of 600g.
- 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.
- The days required for the analysis will increase depending on the inflow of samples for analysis.
- Retention and Disposal of Samples

The samples received by the Board will be retained for a maximum period of 30 days from the date of receipt. If the requisite payment is not received within 30 days from the date of generation of payment link, the samples will be discarded without further notice. The Board shall not be responsible for the samples or any consequences arising from their disposal thereafter.

10.Sample Submission

The samples may be sent to 'The Sample Receipt Desk (SRD), Spices Board, Sugandha Bhavan, Palarivattom, Kochi -682025, Kerala', Email: sampling.sb-ker@spicesboard.gov.in, Tel - 0484 2333610 (Ext. 327, 342).

The sender shall be responsible for ensuring that the samples are securely packed and reach the Board in intact condition.

11.Mode of payment

Upon receipt of the samples, the Board will verify their integrity and condition. If the samples are found to be in good condition and suitable for analysis, a payment link will be generated through the Financial Accounting System of the Board and sent to the email ID provided by the customer.

The customer shall make the requisite payment using the payment link provided by the Board. To generate and communicate the payment link, the customer shall provide a valid mobile number and an email ID along with the samples or in the prescribed Sample Information Sheet available with the SRD.

ANNEXURE 1 - List of Pesticides under PR VIII A.

SI No.	Compound
1.	Bifenthrin
2.	Chlorpyrifos
3.	Chlorpyrifos-methyl
4.	Cyfluthrin Isomers
5.	Cyhalothrin (Gamma)
6.	Cyhalothrin(lambda)
7.	Cypermethrin Isomers
8.	Deltamethrin
9.	Disulfoton
10.	Dithiocarbamates
11.	Endosulfan I
12.	Endosulfan II
13.	Endosulfan sulfate
14.	Fenvalerate
15.	Ethion
16.	Ethoprophos
17.	Fenitrothion
18.	Fenpropathrin
19.	Fipronil
20.	Iprobenfos
21.	Parathion
22.	Parathion-methyl
23.	Phorate
24.	Piperonyl butoxide
25.	Profenofos
26.	Triazophos
27.	Vinclozolin

ANNEXURE 2 - List of Pesticides under PR VIII B.

SI No.	Compound	SI No.	Compound	SI No.	Compound	SI No.	Compound
1.	Acephate	38.	Emamectin Benzoate	75.	Nitralin	112.	Tetrachlorvinphos
2.	Acetamiprid	39.	Etofenprox	76.	Omethoate	113.	Thiacloprid
3.	Acetochlor	40.	Fenamiphos	77.	Paclobutrazol	114.	Thiamethoxam
4.	Alachlor	41.	Fenarimol	78.	Pebulate	115.	Thiodicarb
5.	Allidochlor	42.	Fenbuconazole	79.	Penconazole	116.	Thiophanate
6.	Ametoctradin	43.	Fenhexamid	80.	Pendimethalin	117.	Triadimefon
7.	Atrazine	44.	Fenpyroximate	81.	Penthiopyrad	118.	Triadimenol
8.	Azinphos ethyl	45.	Fenthion	82.	Phenthoate	119.	Triallate
9.	Azinphos methyl	46.	Fluopicolide	83.	Phosalone	120.	Tricyclazole
10.	Azoxystrobin	47.	Fluquinconazole	84.	Phosmet	121.	Trifloxystrobin
11.	Bifenazate	48.	Fluridone	85.	Pirimiphos ethyl	122.	Triflumizole
12.	Boscalid	49.	Flusilazole	86.	Pirimiphos methyl		
13.	Bupirimate	50.	Flutriafol	87.	Pretilachlor		
14.	Buprofezin	51.	Flutolanil	88.	Prochloraz		
15.	Carbaryl	52.	Tau-Fluvalinate	89.	Propachlor		
16.	Carbendazim	53.	Fluxapyroxad	90.	Propamocarb		
17.	Carbofuran	54.	Fonofos	91.	Propiconazole		
18.	Carbosulfan	55.	Hexaconazole	92.	Propyzamide		
19.	Carfentrazone ethyl	56.	Hexazinone	93.	Pyraclofos		
20.	Chlorfenvinphos	57.	Imidacloprid	94.	Pyraclostrobin		
21.	Chlorpropham	58.	Indoxacarb	95.	Pyrazophos		
22.	Chlorthiophos	59.	Iprovalicarb	96.	Pyrethrins		
23.	Clomazone	60.	Isazophos	97.	Pyridaben		
24.	Coumaphos	61.	Lenacil	98.	Pyridaphenthion		
25.	Cyantraniliprole	62.	Linuron	99.	Pyrimethanil		
26.	Cycloate	63.	Malathion	100.	Pyriproxyfen		
27.	Cycloxydim	64.	Mandipropamid	101.	Quinalphos		
28.	Cyprodinil	65.	Metalaxyl	102.	Quinoxyfen		
29.	Diallate	66.	Metazachlor	103.	Spinosad A		
30.	Diazinon	67.	Methamidophos	104.	Spinosad D		
31.	Difenoconazole	68.	Methidathion	105.	Spirodiclofen		
32.	Dimethachlor	69.	Methiocarb	106.	Spirotetramat		
33.	Dimethanamid	70.	Methoxyfenozide	107.	Sulfotep		
34.	Dimethoate	71.	Metolachlor	108.	Tebuconazole		
35.	Dimethomorph	72.	Mevinphos	109.	Tebufenpyrad		
36.	Diphenamid	73.	Monocrotophos	110.	Terbufos		
37.	Edifenphos	74.	Myclobutanil	111.	Terbuthylazine		