



Specification for Ginger Oleoresin SCFE

QUALITATIVE AND QUANTITATIVE REQUIREMENTS

Sr. No.	TESTS	ACCEPTANCE CRITERIA	
1.	Description	A viscous Brownish liquid, Pourable at 25C with setting of resins at bottom on prolonged storage	
2.	Volatile oil Content	Maximum 30 ml/100 g (30%v/w)	
3.	Total Pungent Principles (Gingerols + Shogaols)	Minimum 30%	
4.	Total Gingerol	Minimum 25%	
5.	Moisture Content	Maximum 5%	
6.	Arsenic	Maximum 1 ppm	
	Lead	Maximum 0.5 ppm	
	Cadmium	Maximum 0.5 ppm	
	Mercury	Maximum 0.1 ppm	
7.	Aflatoxin	B1	Maximum 5 ppb
		Sum of B1, B2, G1 & G2	Maximum 20 ppb
8.	Pesticide	As per USP 561 (Annexure I)	
9.	* Ethoxyquin	Should be Absent	
10.	* Dioxins	For Information	
11.	Total plate count	Maximum 1,000 CFU/g	
	Yeast & Mold	Maximum 100 CFU/g	
	Salmonella	Absent /25 g	
	E. coli	< 3 MPN/g	
	Staphylococcus sp.	<10 CFU/g	

Annexure:1

Sr.No.	Substance	Max Limit (mg/kg)
1	Acephate	0.1
2	Alachlor	0.05
3	Aldrin and dieldrin (sum of)	0.05
4	Azinphos-ethyl	0.1
5	Azinphos-methyl	1
6	Bromide, Inorganic (Calculated as bromide ion)	125
7	Bromophos-ethyl	0.05
8	Bromophos-methyl	0.05
9	Brompropylate	3
10	Chlordane (sum of <i>cis</i> -, <i>trans</i> -, and oxochlordane)	0.05
11	Chlorfenvinphos	0.5
12	Chlorpyrifos-ethyl	0.2
13	Chlorpyrifos-methyl	0.1
14	Chlorthal-dimethyl	0.01
15	Cyfluthrin (sum of)	0.1
16	λ -Cyhalothrin	1
17	Cypermethrin and isomers (sum of)	1
18	DDT (sum of <i>o,p'</i> -DDE, <i>p,p'</i> -DDE, <i>o,p'</i> -DDT, <i>p,p'</i> -DDT, <i>o,p'</i> -TDE, and <i>p,p'</i> -TDE)	1
19	Deltamethrin	0.5
20	Diazinon	0.5
21	Dichlofluanid	0.1
22	Dichlorvos	1
23	Dicofol	0.5
24	Dimethoate and omethoate (sum of)	0.1
25	Dithiocarbamates (expressed as CS ₂)	2
26	Endosulfan (sum of isomers and endosulfansulphate)	3
27	Endrin	0.05
28	Ethion	2
29	Etrimphos	0.05
30	Fenchlorophos (sum of fenchlorophos and fenchlorophos-oxon)	0.1
31	Fenitrothion	0.5
32	Fenpropathrin	0.03
33	Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxonsulfon, and fensulfothion-sulfon)	0.05
34	Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon-sulfon, fenthion-oxon-sulfoxid, fenthion-sulfon, and fenthion-sulfoxid)	0.05
35	Fenvalerate	1.5
36	Flucytrinate	0.05
37	τ -Fluvalinate	0.05

38	Fonophos	0.05
39	Heptachlor (sum of heptachlor, <i>cis</i> -heptachlorepoxyde, and <i>trans</i> -heptachlorepoxyde)	0.05
40	Hexachlorbenzene	0.1
41	Hexachlorocyclohexane (sum of isomers α , β , δ , ϵ)	0.3
42	Lindan (γ -hexachlorocyclohexane)	0.6
43	Malathion and malaoxon (sum of)	1
44	Mecarbam	0.05
45	Methacriphos	0.05
46	Methamidophos	0.05
47	Methidathion	0.2
48	Methoxychlor	0.05
49	Mirex	0.01
50	Monocrotophos	0.1
51	Parathion-ethyl and Paraoxon-ethyl (sum of)	0.5
52	Parathion-methyl and Paraoxon-methyl (sum of)	0.2
53	Pendimethalin	0.1
54	Pentachloranisol	0.01
55	Permethrin and isomers (sum of)	1
56	Phosalone	0.1
57	Phosmet	0.05
58	Piperonylbutoxyde	3
69	Pirimiphos-ethyl	0.05
60	Pirimiphos-methyl (sum of pirimiphos-methyl and <i>N</i> -desethyl-pirimiphos-methyl)	4
61	Procymidone	0.1
62	Profenophos	0.1
63	Prothiophos	0.05
64	Pyrethrum (sum of cinerinI, cinerin II, jasmolin I, jasmolinII, pyrethrin I, and pyrethrin II)	3
65	Quinalphos	0.05
66	Quintozene (sum of quintozene, pentachloraniline, and methyl pentachlorophenylsulfide)	1
67	S-421	0.02
68	Tecnazene	0.05
69	Tetradifon	0.3
70	Vinclozolin	0.4
71	Pentachloronitrobenzene	0.01
72	λ Cyhalothrin	1