



SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT

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Report No : FD21090131-01

Report Date: 13 Sep 2021

Customer Name : M/s. Siddhartha Trading
Customer Address : #66, 9th Main Off 14th Cross Indira Nagar 2nd Stage Bangalore-560038
Sample Name : Cold Pressed Sunflower Oil **Sample Quantity** : 1Ltr x 1No
Sample Description : Cold Pressed Sunflower Oil **Sample Received on** : 06 Sep 2021
Reference : Test Request Form Dated 01.09.2021 **Test Started on** : 07 Sep 2021
Sample Identification : Batch No: SFE/001, **Test Completed on** : 13 Sep 2021
Mfg.Date: Aug 2021, Exp.Date: July 2022
Sample Drawn By : Customer

TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	Requirement as per FSSR 2011 Amd.2021
Food & Agri- Edible Oils & Fats					
Antioxidants					
1	BHA	SMSLA/HC/SOP/26	mg/kg	BLQ(LOQ:10.0)	NMT 200
2	BHT	SMSLA/HC/SOP/26	mg/kg	BLQ(LOQ:10.0)	NMT 200
3	Propyl Gallates	SMSLA/HC/SOP/26	mg/kg	BLQ(LOQ:10.0)	NMT 200
4	TBHQ	SMSLA/HC/SOP/26	mg/kg	BLQ(LOQ:10.0)	NMT 200
Carotenoids					
5	β- Carotene	SMSLA/HC/SOP/29	mg/kg	BLQ(LOQ:0.50)	NMT 1000
Chemical					
6	Acid Value	FSSAI Manual 2	mg KOH/g	0.137	NMT 6.0
7	Added Colouring Matter	FSSAI Manual 5	--	Absent	Absent
8	Butyro Refractometer Reading at 40°C	FSSAI Manual 2	--	58.6	57.1 – 65.0
9	Energy	SMSLA/FD/SOP/011	Kcal/100g	899.46	--
10	Fat	SMSLA/FD/SOP/047	g/100g	99.94	--
11	Flash Point	FSSAI Manual 2	°C	267.54	NLT 250
12	Foreign Matter	SMSLA/FD/SOP/015	--	Absent	Absent
13	Free Fatty Acid of Extracted Fat	FSSAI Manual 2	g/100g	0.069	--
14	Iodine Value	FSSAI Manual 2	--	120.25	100 - 145
15	Peroxide Value	FSSAI Manual 2	meq/Kg	3.32	NMT 15
16	Protein	AOAC 2001.11	g/100g	Nil	--
17	Rancidity	FSSAI Manual 2	--	Absent	Absent
18	Refractive Index at 40°C	FSSAI Manual 2	--	1.4650	1.4640 – 1.4691
19	Saponification Value	FSSAI Manual 2	mg KOH/g	191.36	188 - 194
20	Separated Water	SMSLA/FD/SOP/035	--	Absent	Absent


A. Manikandan
Authorized Signatory - Chemical


P. Jayasudha
Authorized Signatory - Chemical

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21	Test for Argemone Oil	FSSAI Manual 2	--	Negative	Absent
22	Test for Castor Oil	FSSAI Manual 2	--	Negative	--
23	Test for Mineral Oil	FSSAI Manual 2	--	Absent	Absent
24	Unsaponifiable Matter	FSSAI Manual 2	g/100g	0.53	NMT 1.5
25	Added Sugar	SMSLA/FD/SOP/019	g/100g	Nil	--
26	Carbohydrates	IS 1656	g/100g	Nil	--
27	Density	SMSLA/FD/SOP/046	g/ml	0.9061	--
28	Total Sugar	SMSLA/FD/SOP/019	g/100g	Nil	--
Fatty Acid Profile					
29	Mono-unsaturated Fat	SMSLA/GM/SOP/01	g/100g	34.326	--
30	Polyunsaturated Fat	SMSLA/GM/SOP/01	g/100g	53.389	--
31	Saturated Fat	SMSLA/GM/SOP/01	g/100g	12.225	--
32	Trans Fat	SMSLA/GM/SOP/01	g/100g	BLQ (LOQ:0.001)	--
33	Isopropyl citrate mixture	SMSLA/GM/SOP/55	mg/kg	BLQ (LOQ:1.0)	NMT 200
34	Phosphoric acid	SMSLA/GM/SOP/58	mg/kg	BLQ (LOQ:0.01)	NMT 100
35	Diacetyltartaric acid and fatty acid esters of glycerol	SMSLA/GEF/SOP/15	mg/kg	100	NMT 10000
36	Propylene glycol esters of fatty acids	SMSLA/GEF/SOP/15	mg/kg	100	NMT 10000
Fatty Acid Profile Mono-unsaturated Fatty Acids (MUFA's)					
37	C14:1; Myristoleic acid	SMSLA/GM/SOP/01	g/100g	ND	--
38	C15:1; Pentadecenoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
39	C16:1; Palmitoleic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
40	C17:1; Heptadecenoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.1
41	C18:1; Oleic acid	SMSLA/GM/SOP/01	g/100g	34.326	14.0 - 39.4
42	C20:1; cis -11-Eicosenoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
43	C22:1; Erucic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
44	C24:1; Nervonic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.5
Fatty Acid Profile Polyunsaturated Fatty Acid (PUFA's)					
45	C18:2;Linoleic acid	SMSLA/GM/SOP/01	g/100g	53.389	48.3 - 74.0
46	C18:3;Gamma-Linolenic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
47	C18:3;Linolenic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
48	C20:2;Eicosadienoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
49	C20:3; 11,14,17-Eicosatrienoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
50	C20:3; 8,11-14-Eicosatrienoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
51	C20:4; Arachidonic acid	SMSLA/GM/SOP/01	g/100g	ND	--
52	C20:5; Eicosopentanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
53	C22:2; 13-16-Docosadienoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
54	C22:6; Docosohexanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--

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Authorized Signatory - Chemical

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Fatty Acid Profile Saturated Fatty Acids					
55	C10:0; Capric acid	SMSLA/GM/SOP/01	g/100g	ND	ND
56	C11:0; Undecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
57	C12:0; Lauric acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
58	C13:0; Tridecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
59	C14:0; Myristic acid	SMSLA/GM/SOP/01	g/100g	0.180	ND - 0.3
60	C15:0; Pentadecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
61	C16:0; Palmitic acid	SMSLA/GM/SOP/01	g/100g	6.527	4 - 8
62	C17:0; Heptadecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.2
63	C18:0; Stearic acid	SMSLA/GM/SOP/01	g/100g	4.068	1.0 - 7.0
64	C20:0; Arachidic acid	SMSLA/GM/SOP/01	g/100g	0.230	0.1 - 0.5
65	C21:0; Heneicosanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
66	C22:0; Behenic acid	SMSLA/GM/SOP/01	g/100g	0.910	0.3 - 1.5
67	C23:0; Tricosanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
68	C24:0; Lignoceric acid	SMSLA/GM/SOP/01	g/100g	0.280	ND - 0.3
69	C4:0; Butyric acid	SMSLA/GM/SOP/01	g/100g	ND	--
70	C6:0; Caproic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
71	C8:0; Caprylic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
Fatty Acid Profile Trans Fatty Acids (TFA's)					
72	C18:1; Elaidic acid	SMSLA/GM/SOP/01	g/100g	BLQ (LOQ:0.001)	--
73	C18:2; Linolelaidic acid	SMSLA/GM/SOP/01	g/100g	BLQ (LOQ:0.001)	--
Pesticides					
74	Aldicarb	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
75	Aldrin	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
76	Captafol	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
77	Chlordane	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
78	Diazinon	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
79	Dieldrin	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
80	Endosulfan Sulfate	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
81	Endosulfan-Alpha	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
82	Endosulfan-Beta	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*


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83	Fenitrothion	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
84	Fenthion	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
85	Ferbam as CS2	SMSLA/GM/SOP/05	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
86	Formothion	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
87	HCH-Gamma	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
88	Heptachlor	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
89	Methomyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
90	Monocrotophos	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
91	o,p-DDD	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
92	o,p-DDE	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
93	o,p-DDT	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
94	Oxadiargyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05*
95	p,p-DDD	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
96	p,p-DDE	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
97	p,p-DDT	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
98	Parathion ethyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
99	Parathion methyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
100	Phenthoate	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01
101	Phosphamidon	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
102	Simazine	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
Preservatives					
103	Polysorbate	SMSLA/HC/SOP/18	mg/kg	BLQ(LOQ:10.0)	NMT 5000
Sterols					
104	Cholesterol	SMSLA/GM/SOP/02	mg/100g	BLQ(LOQ:1.0)	--
Trace Metal Elements					
105	Arsenic	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
106	Cadmium	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
107	Copper	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
108	Lead	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
109	Mercury	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
110	Methyl Mercury [Calculated as Element]	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
111	Tin	SMSLA/IS/SOP/02	mg/kg	2.08	--
Vitamins- Water Soluble					
112	Ascorbyl Ester	SMSLA/HC/SOP/27	mg/kg	BLQ(LOQ:5.0)	NMT 500

Note : BLQ: Below Limit of Quantification, LOQ: Limit of Quantification. ND: Not Detected. * Extraneous MRL of Banned Pesticides
Remarks: The sample complies with the specification as per FSSR 2011, Amendment 2021 for the above tested parameters.
NMT: Not more than. NLT: Not less than

/***** End of the Report *****/


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