



# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT

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Report No : FD21090131-03

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 Groundnut Oil **Sample Quantity** : 1Ltr x 1No  
**Sample Description** : Cold Pressed Groundnut 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: GNE/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
<b>Food &amp; Agri- Edible Oils &amp; Fats</b>					
<b>Antioxidants</b>					
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
<b>Chemical</b>					
5	Acid Value	FSSAI Manual 2	mg KOH/g	2.86	NMT 6.0
6	Added Colouring Matter	FSSAI Manual 5	--	Absent	Absent
7	Bellier Test	FSSAI Manual 2	°C	39.16	--
8	Butyro Refractometer Reading at 40°C	FSSAI Manual 2	--	55.6	54.0 – 57.1
9	Energy	SMSLA/FD/SOP/011	Kcal/100g	899.64	--
10	Fat	SMSLA/FD/SOP/047	g/100g	99.96	--
11	Foreign Matter	SMSLA/FD/SOP/015	--	Absent	Absent
12	Free Fatty Acid of Extracted Fat	FSSAI Manual 2	g/100g	1.44	--
13	Iodine Value	FSSAI Manual 2	--	93.44	85 - 99
14	Peroxide Value	FSSAI Manual 2	meq/Kg	6.03	NMT 15
15	Protein	AOAC 2001.11	g/100g	Nil	--
16	Rancidity	FSSAI Manual 2	--	Absent	Absent
17	Refractive Index at 40°C	FSSAI Manual 2	--	1.4630	1.4620 – 1.4640
18	Saponification Value	FSSAI Manual 2	mg KOH/g	192.74	188 - 196
19	Separated Water	SMSLA/FD/SOP/035	--	Absent	Absent
20	Test for Argemone Oil	FSSAI Manual 2	--	Negative	Absent
21	Test for Castor Oil	FSSAI Manual 2	--	Negative	--
22	Test for Mineral Oil	FSSAI Manual 2	--	Absent	Absent

*P. Jayasudha*  
P. Jayasudha  
Authorized Signatory-Chemical

*A. Kanagavel*  
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Authorized Signatory-Chemical

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23	Unsaponifiable Matter	FSSAI Manual 2	g/100g	0.48	NMT 1.0
24	Added Sugar	SMSLA/FD/SOP/019	g/100g	Nil	--
25	Carbohydrates	IS 1656	g/100g	Nil	--
26	Density	SMSLA/FD/SOP/046	g/ml	0.8988	--
27	Total Sugar	SMSLA/FD/SOP/019	g/100g	Nil	--
<b>Fatty Acid Profile</b>					
28	Mono-unsaturated Fat	SMSLA/GM/SOP/01	g/100g	39.690	--
29	Polyunsaturated Fat	SMSLA/GM/SOP/01	g/100g	35.122	--
30	Saturated Fat	SMSLA/GM/SOP/01	g/100g	25.147	--
31	Trans Fat	SMSLA/GM/SOP/01	g/100g	BLQ (LOQ:0.001)	--
32	Isopropyl citrate mixture	SMSLA/GM/SOP/55	mg/kg	BLQ (LOQ:1.0)	NMT 200
33	Phosphoric acid	SMSLA/GM/SOP/58	mg/kg	BLQ (LOQ:0.01)	NMT 100
34	Diacyltartaric acid and fatty acid esters of glycerol	SMSLA/GEF/SOP/15	mg/kg	100	NMT 10000
35	Propylene glycol esters of fatty acids	SMSLA/GEF/SOP/15	mg/kg	100	NMT 10000
<b>Fatty Acid Profile Mono-unsaturated Fatty Acids (MUFA's)</b>					
36	C14:1; Myristoleic acid	SMSLA/GM/SOP/01	g/100g	ND	--
37	C15:1; Pentadecenoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
38	C16:1; Palmitoleic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.2
39	C17:1; Heptadecenoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.1
40	C18:1; Oleic acid	SMSLA/GM/SOP/01	g/100g	38.931	35.0 - 69
41	C20:1; cis -11-Eicosenoic acid	SMSLA/GM/SOP/01	g/100g	0.760	0.7 - 1.7
42	C22:1; Erucic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
43	C24:1; Nervonic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
<b>Fatty Acid Profile Polyunsaturated Fatty Acid (PUFA's)</b>					
44	C18:2; Linoleic acid	SMSLA/GM/SOP/01	g/100g	35.122	12.0 - 43.0
45	C18:3; Gamma-Linolenic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
46	C18:3; Linolenic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.3
47	C20:2; Eicosadienoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
48	C20:3; 11,14,17-Eicosatrienoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
49	C20:3; 8,11-14-Eicosatrienoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
50	C20:4; Arachidonic acid	SMSLA/GM/SOP/01	g/100g	ND	--
51	C20:5; Eicosopentanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
52	C22:2; 13-16-Docosadienoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
53	C22:6; Docosohexanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
<b>Fatty Acid Profile Saturated Fatty Acids</b>					
54	C10:0; Capric acid	SMSLA/GM/SOP/01	g/100g	ND	ND

A. Kanagavel  
Authorized Signatory - Chemical

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54	C11:0; Undecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
55	C12:0; Lauric acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 1.0
56	C13:0; Tridecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
57	C14:0; Myristic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.5
58	C15:0; Pentadecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
59	C16:0; Palmitic acid	SMSLA/GM/SOP/01	g/100g	13.823	6.0 - 14
60	C17:0; Heptadecanoic acid	SMSLA/GM/SOP/01	g/100g	ND	ND - 0.1
61	C18:0; Stearic acid	SMSLA/GM/SOP/01	g/100g	4.628	0.6 - 7.0
62	C20:0; Arachidic acid	SMSLA/GM/SOP/01	g/100g	1.819	1.0 - 4.0
63	C21:0; Heneicosanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
64	C22:0; Behenic acid	SMSLA/GM/SOP/01	g/100g	3.508	1.5 - 4.5
65	C23:0; Tricosanoic acid	SMSLA/GM/SOP/01	g/100g	ND	--
66	C24:0; Lignoceric acid	SMSLA/GM/SOP/01	g/100g	1.369	0.5 - 2.5
67	C4:0; Butyric acid	SMSLA/GM/SOP/01	g/100g	ND	--
68	C6:0; Caproic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
69	C8:0; Caprylic acid	SMSLA/GM/SOP/01	g/100g	ND	ND
<b>Fatty Acid Profile Trans Fatty Acids (TFA's)</b>					
70	C18:1; Elaidic acid	SMSLA/GM/SOP/01	g/100g	BLQ (LOQ:0.001)	--
71	C18:2; Linolelaidic acid	SMSLA/GM/SOP/01	g/100g	BLQ (LOQ:0.001)	--
<b>Pesticides</b>					
72	Aldicarb	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
73	Aldrin	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
74	Captafol	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
75	Carbofuran	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
76	Chlorantraniliprole	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.03*
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	Dichlorvos	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.2
80	Dieldrin	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
81	Emamectin benzoate	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05
82	Endosulfan Sulfate	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*

  
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83	Endosulfan-Alpha	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
84	Endosulfan-Beta	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
85	Epoxiconazole	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05*
86	Fenitrothion	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
87	Fenthion	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
88	Ferbam as CS2	SMSLA/GM/SOP/05	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
89	Fluazifop-p-butyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
90	Fomesafen	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.02*
91	Formothion	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
92	HCH-Gamma	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
93	Heptachlor	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
94	Imazamox	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
95	Imazethapyr	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
96	Methomyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
97	Metiram as CS2	SMSLA/GM/SOP/05	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
98	Monocrotophos	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
99	o,p-DDD	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
100	o,p-DDE	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
101	o,p-DDT	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
102	Oxyfluorfen	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05
103	p,p-DDD	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
104	p,p-DDE	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
105	p,p-DDT	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	--
106	Parathion ethyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
107	Parathion methyl	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
108	Phenthoate	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.03
109	Phosphamidon	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
110	Pyraclostrobin	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05*
111	Quinalphos	SMSLA/GS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.3
112	Simazine	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.01*
113	Tebuconazole	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05

  
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114	Thiamethoxam	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.05*
115	Trichlorfon (Dylox)	SMSLA/LS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
<b>Preservatives</b>					
116	Polysorbate	SMSLA/HC/SOP/18	mg/kg	BLQ(LOQ:10.0)	NMT 5000
<b>Sterols</b>					
117	Cholesterol	SMSLA/GM/SOP/02	mg/100g	BLQ(LOQ:1.0)	--
<b>Trace Metal Elements</b>					
118	Arsenic	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
119	Cadmium	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
120	Copper	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
121	Lead	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.01)	NMT 0.1
122	Mercury	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
123	Methyl Mercury [Calculated as Element]	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
124	Tin	SMSLA/IS/SOP/02	mg/kg	BLQ(LOQ:0.1)	--
<b>Vitamins- Water Soluble</b>					
125	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.

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

  
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