

TEST REPORT (Amended On 07-11-2022)

Issued to :

Patanjali Ayurved Limited

GAT No- 5, Ahmednagar - Aurangabad Road,
Khadka Fata, Tal- Newasa, Dist- Ahmednagar-414603
Maharashtra, India

J.O. No. : O&F20220528-007-014
ULR Code : TC5503 22 1 00003727 F
Report Date : 02-06-2022
Sample Receipt Date : 28-05-2022
Account Manager : Omkar Nath
Credit Manager : Gulab Singh

Customer Provided Information:

Nature/Name of the Sample : **Cow's Ghee**
Brand Name : Patanjali
Batch No. : BJ02200089
Mfg. Date : May 22
Best Before : Jan 23

Laboratory Provided Information:

Sample Quantity & Packaging : 1Litre, Tetra Pack
Date of Performance of Test : 28th May - 02nd June, 2022
Method of Sampling : FL/SOP/B/D-02
Sample Collected By : Mr. Vijay Singh (FARE LABS Representative)



Analysis Report

S. No.	Parameters	Unit	Test Results	FSSR, 2011	Protocol
Physical Analysis					
1	Appearance	--	Clear	Clear	Visual
Chemical Analysis					
1	Baudouin Test	--	Negative	Negative	IS 3508
2	Butyro-Refractometer Reading at 40°C	--	41.1	40.0 to 43.0	IS 3508
3	Free Fatty Acid (as Oleic Acid)	%	0.30	NMT 2.0	IS 3508
4	Moisture	%	0.14	NMT 0.5	FSSAI Manual for Milk and Milk Products: 2016
5	RM value	--	28.7	NLT 24.0	IS 3508


Reviewed By


Authorised Signatory
D Mathur, Director

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Heavy Metals					
1	Arsenic	mg/kg	ND, (LOQ-0.02)	NMT 1.1	FL/SOP/ICPMS-05
2	Cadmium	mg/kg	ND, (LOQ-0.02)	NMT 1.5	FL/SOP/ICPMS-05
3	Copper	mg/kg	ND, (LOQ-0.05)	NMT 30	FL/SOP/ICPMS-05
4	Lead	mg/kg	ND, (LOQ-0.02)	NMT-2.5	FL/SOP/ICPMS-05
5	Mercury	mg/kg	ND, (LOQ-0.02)	NMT 1.0	FL/SOP/ICPMS-05
6	Methyl mercury as element	mg/kg	ND, (LOQ-0.02)	NMT 0.25	FL/SOP/ICPMS-05
7	Tin	mg/kg	ND, (LOQ-0.05)	NMT 250	FL/SOP/ICPMS-05

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S. No.	Parameters	Unit	Test Results	FSSR, 2011	Protocol
Naturally Occuring Toxic Materials					
1	Agaric acid	mg/kg	ND, (DL-1)	Not Specified	FL/SOP/HPLC-25
2	Hydrocyanic Acid	mg/kg	ND, [DL-0.2]	Not Specified	FL/SOP/OC-16
3	Hypericine	mg/kg	ND, (DL-0.5)	Not Specified	FL/SOP/HPLC-26
4	Safole	mg/kg	ND, [DL-1]	Not Specified	FL/SOP/GC-28
Aflatoxins					
1	Aflatoxin M1	µg/kg	ND, (LOQ-0.5)	Not Specified	FL/SOP/LCMS-34
Other Contaminants					
1	Melamine	mg/kg	ND, (DL-0.01)	NMT 2.5	FL/SOP/LCMS-37

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Pesticide Residues					
1	2,4-Dichlorophenoxy Acetic Acid	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
2	Acephate (expressed as mixture of Methamidophos & acephate)	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
3	Acetamiprid	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
4	Azoxystrobin	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
5	Benomyl	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/LCMS/P-05
6	Bifenthrin	mg/kg	ND, (LOQ-0.01)	0.2	FL/SOP/GCMS/P-05
7	Bitertanol	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
8	Buprofezin	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
9	Carbaryl	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
10	Carbendazim	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/LCMS/P-05
11	Carbofuran (sum of carbofuran & 3-hydroxy carbofuran expressed as carbofuran)	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
12	Chlorantraniliprole	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
13	Chlorothalonil	mg/kg	ND, (LOQ-0.01)	0.07	FL/SOP/GCMS/P-05
14	Chlorpyrifos	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/GCMS/P-05
15	Chlothianidin (Chlothianidin and its metabolites Thiazolymethylguanidine (TMG), Thiazolymethylurea (TSMU), Methylnitroguanidine (MNG) TMG)	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
16	Cypermethrin (sum of isomers) (Fat soluble residue)	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/GCMS/P-05
17	Deltamethrin	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/GCMS/P-05

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TC-5503

Analysis Report

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Pesticide Residues					
18	Dichlorvos (DDVP) (content of di-chloroacetaldehyde (D.C.A.) be reported where possible)	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/GCMS/P-05
19	Difenoconazole	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
20	Dimethoate	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
21	Dinotefuran	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/LCMS/P-05
22	Mancozeb as CS2	mg/kg	ND, (LOQ-0.03)	0.05	FL/SOP/GCMS/P-18
23	Metiram as CS2	mg/kg	ND, (LOQ-0.03)	0.05	FL/SOP/GCMS/P-18
24	Edifenphos	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
25	Emamectin Benzoate	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
26	Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)	mg/kg	ND, (LOQ-0.01)	0.5	FL/SOP/GCMS/P-05
27	Ethofenprox (Etofenprox)	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
28	Fenpropathrin	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/GCMS/P-05
29	Fenvalerate (Fat soluble residue)	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/GCMS/P-05
30	Fipronil	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
31	Flubendiamide	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/LCMS/P-05
32	Flusilazole	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
33	Glufosinate Ammonium	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
34	Imidacloprid	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/LCMS/P-05
35	Indoxacarb	mg/kg	ND, (LOQ-0.01)	0.1	FL/SOP/LCMS/P-05

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Pesticide Residues					
36	Kresoxim Methyl	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/GCMS/P-05
37	Methomyl	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
38	Methyl Chlorophenoxy Acetic Acid (MCPA)	mg/kg	ND, (LOQ-0.01)	0.04	FL/SOP/LCMS/P-05
39	Metolachlor	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
40	Monocrotophos	mg/kg	ND, (LOQ-0.01)	0.02	FL/SOP/LCMS/P-05
41	Oxydemeton-Methyl	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
42	Paraquat dichloride (Determined as Paraquatcations)	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
43	Penconazole	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
44	Phenthoate	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/GCMS/P-05
45	Phorate (sum of Phorate, its oxygen analogue and their sulfoxides and sulphones, expressed as phorate)	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/GCMS/P-05
46	Pirimiphos-methyl	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/GCMS/P-05
47	Propiconazole	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
48	Pyraclostrobin	mg/kg	ND, (LOQ-0.01)	0.03	FL/SOP/LCMS/P-05
49	Tebuconazole	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05
50	Thiacloprid	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
51	Thiamethoxam	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
52	Thiophanate-Methyl	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
53	Trichlorfon	mg/kg	ND, (LOQ-0.01)	0.05	FL/SOP/LCMS/P-05
54	Triacantanol	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05

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Pesticide Residues					
55	Triadimefon	mg/kg	ND, (LOQ-0.01)	0.01	FL/SOP/LCMS/P-05

NOTE: ND= Not Detected; DL= Detection Limit; LOQ= Limit of Quantification; NMT= Not More Than
Inference: The tested Sample of Ghee **conforms** to FSSR, 2011 w.r.t. above tests.

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