

**ARBRO™**PHARMACEUTICALS PRIVATE LIMITED
(ANALYTICAL DIVISION)

ISO 9001 : 2008 Certified

Govt. Approved Test House

CERTIFICATE OF ANALYSIS



Report No. : 201810100252

Sample : PATANJALI COWS GHEE
 Mfgd. By : PATANJALI AYURVED LTD. (UNIT - II - HARIDWAR)
 Supplied By : PATANJALI AYURVED LTD. (UNIT - II - HARIDWAR)
 Submitted By : PATANJALI AYURVED LTD. (UNIT - II - HARIDWAR)
 Address : MAHARISHI DAYANAND GRAM, BESIDE DIVYA NURSERY NEAR PATANJALI YOGPEETH, BAHADRABAD,, HARIDWAR, UTTARAKHAND- 249405

Received On : 10/10/2018
 Mfg lic. No. : NS
 Ref. No. : NS

Batch No AIW 1800004 Mfg. Date 13/09/2018 Expiry Date BEST BEFORE 09 MONTHS Batch Size NS Sample Quantity 1 Kg

Date of start of analysis 10/10/2018 FROM DATE OF MFG.

Date of completion of analysis 17/10/2018

Reference to protocol :- FSSR-2011

Description :- Light yellow ghee free from animal body fat, vegetable fat and oil, mineral oil and added flavour. It has pleasant taste and flavour free from off flavour and rancidity.

<Parameters>	<Results>	<Unit>	<Req.>	<Claim>	<LLOQ>	<Method>
Butyro-Refractometer Reading at 40(o)C	:- 41.0	°C	40 - 43	-	-	IS:3508-1966
Reichert-Meisli Value	:- 28.77		Min. 26	-	-	IS:3508, CL-12
Free Fatty Acids (as Oleic acid)	:- 0.51	%	Max. 3.0	-	-	IS:3508-1966
Moisture Content	:- 0.12	%	Max. 0.5	-	-	IS:3508, CL-4
Baudouin Test	:- Negative		Negative.	-	-	IS:3508:1966
Added Colouring Matter	:- Absent		Absent.	-	-	FSSAI MANUAL
Heavy metals (by ICP-MS) :						
Lead (as Pb)	:- Below detection limit	mg/kg	Max. 0.5		0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
Arsenic (as As)	:- Below detection limit	mg/kg	Max. 1.1		0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
Zinc (as Zn)	:- 1.349	mg/kg	Max. 50.0		0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
Mercury (as Hg)	:- Below detection limit	mg/kg	Max. 1.0		0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
Tin (as Sn)	:- Below detection limit	mg/kg	Max. 250.0		0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
Cadmium (as Cd)	:- Below detection limit	mg/kg	Max. 1.5		0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)

Page 1 of 6

Date :- Wednesday, Oct 17, 2018

Authorized Signatory

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Email : arbrolab@arbropharma.com, Website : www.arbropharmaindia.com

*Terms & Conditions Overleaf

VINEET TYAGI
Assistant Manager

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Methyl mercury (by GC).	:- Below detection limit	mg/kg	Max. 0.25	0.050 mg/kg	AOAC:988.11
Copper (as Cu)	:- Below detection limit	mg/kg	Max. 30.0	0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
NOTS:					
Agaric acid	:- Below Detection Limit	mg/kg	Max. 100	10.0 mg/kg	APL/CHE/STP-14 4
Hydrocyanic acid	:- Absent	mg/kg	Max. 5	-	AOAC 915.03
Hypericine	:- Below detection limit.	mg/kg	Max. 1	0.50 mg/kg	AOAC :2013.15
Saffrole	:- Below Detection Limit	mg/kg	Max. 10	0.50 mg/kg	APL/CHE/STP-09 0
CROP CONTAMINANTS:					
Total Aflatoxin	:- Below Detection Limit	µg/kg	Max. 30.0	-	APL/CHE/STP-04 0 (BY LC MS-MS)
Aflatoxin B1	:- Below Detection Limit	µg/kg	N.S.	1 µg/kg	APL/CHE/STP/ -040 (By LC/MS/MS)
Aflatoxin B2	:- Below Detection Limit	µg/kg	N.S.	1 µg/kg	APL/CHE/STP/ -040 (By LC/MS/MS)
Aflatoxin G1	:- Below Detection Limit	µg/kg	N.S.	1 µg/kg	APL/CHE/STP/ -040 (By LC/MS/MS)
Aflatoxin G2	:- Below Detection Limit	µg/kg	N.S.	1 µg/kg	APL/CHE/STP/ -040 (By LC/MS/MS)
PESTICIDE RESIDUES:					

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Date of start of analysis 10/10/2018 FROM DATE OF MFG. **Date of completion of analysis** 17/10/2018

Reference to protocol	:- FSSR-2011				
Aldrin.	:- Below Detection Limit	mg/kg	Max. 0.15	0.0050 mg/kg	APL/CHE/STP-06 1 (By GC/MS/MS)
Dieldrin	:- Below Detection Limit	mg/kg	Max. 0.15	0.0050 mg/kg	APL/CHE/STP-06 1 (By GC/MS/MS)
Chlordane alfa	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 1 (By GC/MS/MS)
Chlordane gamma	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 1 (By GC/MS/MS)
Heptachlor	:- Below Detection Limit	mg/kg	Max. 0.15	0.0050 mg/kg	APL/CHE/STP-06 1 BY GC-MS/MS
Heptachlor Epoxide	:- Below Detection Limit	mg/kg	Max. 0.15	0.0050 mg/kg	APL/CHE/STP-06 1 (By GC/MS/MS)
Lindane (Gamma - HCH).	:- Below Detection Limit	mg/kg	Max. 0.01	0.0050 mg/kg	APL/CHE/STP-06 1 BY GC-MS/MS
DDD - o,p'	:- Below Detection Limit	mg/kg	Max. 1.25	0.0050 mg/kg	APL/CHE/STP-06 1, by GC/MS/MS
DDD - p,p'	:- Below Detection Limit	mg/kg	Max. 1.25	0.0050 mg/kg	APL/CHE/STP-06 1, by GC/MS/MS
DDE - o,p'	:- Below Detection Limit	mg/kg	Max. 1.25	0.0050 mg/kg	APL/CHE/STP-06 1, by GC/MS/MS
DDE - p,p'	:- Below Detection Limit	mg/kg	Max. 1.25	0.0050 mg/kg	APL/CHE/STP-06 1, by GC/MS/MS
DDT - o,p'	:- Below Detection Limit	mg/kg	Max. 1.25	0.0050 mg/kg	APL/CHE/STP-06 1, by GC/MS/MS
DDT - p,p'	:- Below Detection Limit	mg/kg	Max. 1.25	0.0050 mg/kg	APL/CHE/STP-06 1, by GC/MS/MS
Monocrotophos	:- Below Detection Limit	mg/kg	Max. 0.02	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS
Fenitrothion	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 1 BY GC-MS/MS

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Reference to protocol :- FSSR-2011

Chlorienvinphos(residues to be measured as alpha and beta isomers of chlorfenvinphos).	:- Below Detection Limit	mg/kg	Max. 0.2	0.0050 mg/kg	APL/CHE/STP-06 1 BY GC-MS/MS
Chlorpyrifos	:- Below Detection Limit	mg/kg	Max. 0.01	0.0050 mg/kg	APL/CHE/STP-06 1 BY GC-MS/MS
Ethion	:- Below Detection Limit	mg/kg	Max. 0.5	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS
Edifenphos	:- Below Detection Limit	mg/kg	Max. 0.01	0.0050 mg/kg	APL/CHE/STP-06 3 (By LC/MS/MS)
Fenthion(sum of fenthion,its O2 analogue& their sulphoxides & sulphones,expr. as fenthion).	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 3
Phenthoate	:- Below Detection Limit	mg/kg	Max. 0.01	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS
Pririmpfos-methyl	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 3
Phorate (sum of phorate,its O2 analogue & their sulphoxides & sulphones, expr.as phorate	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS
Benomyl (as Carbendazim)	:- Below Detection Limit	mg/kg	Max. 0.1	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS
Carbendazim	:- Below Detection Limit	mg/kg	Max. 0.1	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS
Carbofuran,	:- Below Detection Limit	mg/kg	Max. 0.05	0.0050 mg/kg	APL/CHE/STP-06 3 BY LC-MS/MS

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Date of start of analysis 10/10/2018 FROM DATE OF MFG. Date of completion of analysis 17/10/2018

Reference to protocol					
Reference to protocol	:- FSSR-2011				
Cypermethrin (sum of isomers) (fat soluble residue),	:- Below Detection Limit	mg/kg	Max. 0.01	0.0050 mg/kg	APL/CHE/STP-06 1 (BY GC-MS/MS)
Fenvalerate (as fat soluble residue)	:- Below Detection Limit	mg/kg	Max. 0.01	0.0050 mg/kg	APL/CHE/STP-06 1 BY GC-MS/MS
2,4-D	:- Below Detection Limit	mg/kg	Max. 0.05	0.010 mg/kg	APL/CHE/STP-12 0 (By LC/MS/MS)
Mineral oil	:- Absent	mg/kg		-	FSSAI MANUAL
Peroxide Value	:- Nil	mEq		-	IS:3508:1996
Aflatoxin M1	:- Below Detection Limit	µg/kg	Max. 0.5	0.020 µg/kg	APL/CHE/STP-11 5 by LC-MS-MS
Microbiological Tests:					
Coliform count,	:- Less than 10	cfu/gm		-	IS:5401, (Part-1):2012, REF. 2007
Salmonella	:- Absent	per 25gm		-	IS:5887(P-3):2013
Staphylococcus aureus (Coagulase positive)	:- Less than 10	cfu/gm		-	IS:5887 (Part-8/Sec.1), 2002
Total Yeast and Mould Count.	:- Less than 10	cfu/gm		-	IS:5403:1999
Clostridium perfringenes.	:- Absent	per gm		-	IS:5887(P-4):2013
Listeria monocytogenes.	:- Absent	per gm		-	IS:14968,(Part-1), 2001
Polenske Value	:- 1.05			-	IS:3508:1966
Melamine.	:- Below Detection Limit	mg/kg	Max. 2.5	0.00250 mg/kg	APL/INS/STP-060 (by LC/MS/MS)



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Reference to protocol	:- FSSR-2011				
Escherichia coli	:- Absent		-		IS:5887(I):1976/IS:15185
Chromium(as Cr)	:- Below detection limit	mg/kg	N.S.	0.20 mg/kg	APL/CHE/STP-08 5(by ICP-MS)
Nickel. (as Ni)	:- Below detection limit	mg/kg	N.S.	0.20 mg/kg	APL/CHE/STP-08 5 (by ICP-MS)
Saturated fatty acids (by GC)	:- 73.08	g/100g		0.10 g/100g	AOAC 996.06
Mono unsaturated fatty acid (by GC)	:- 22.95	g/100g		0.10 g/100g	AOAC 996.06
Poly unsaturated fatty acid (by GC)	:- 1.94	g/100g		0.10 g/100g	AOAC 996.06
Trans Fatty acid (by GC)	:- 2.04	g/100g		0.10 g/100g	AOAC 996.06



Report : Sample submitted conforms to FSSR-2011 specification as on above tested parameters.