

**OLAM AGRO INDIA PVT LTD***Amalapuram, Visakhapatnam Dist., Andhra Pradesh, India***CERTIFICATE OF ANALYSIS**

<b>Product</b>	<b>Cashew Nut Kernels – OLP,</b>	22.68 kg per carton	
<b>Lot Number</b>	6600056618/2	<b>Quantity</b>	700 Cartons (50 lbs)
<b>Production month</b>	Dec 2020	<b>BBD Date</b>	24 MONTHS FROM PACKING DATE

**\*Physical Parameters:**

Parameter	Results	Limits	Test Method
Flavour/ Odour	Typical of blanched cashew, No off odour	Typical of blanched cashew, No off Odour	As per In-house SOP
Appearance/ Colour	Pale Ivory	Pale Ivory, Light Ash-grey, Light Yellow	
Insect Damage	Not detected	0.5% Max	As per current AFI Method
Mold rancidity, decay	0.2%	0.5% Max	
Adhering Matter	0.35%	0.5% Max	
Foreign Matter	Not detected	0.01% Max	
Adhering Testa %	1.5%	3.0% Max	
4th Quality (Spot)	0.35%	0.5% Max	
Infestation	NIL	NIL	

**\*Chemical Parameters:**

Parameter	Results	Tolerance	Test Method
Moisture	3.5%	5.0%	IR/Halogen Moisture Analyser
FFA Free fatty acid content as oleic acid	0.8%	1.25 % (w/w) Max	As Per In-house SOP
Peroxide Value	Not detected	5.0mq/kg Max	A.O.A.C. International 20 <sup>th</sup> edition Rev II 2016, 965.33
Aflatoxin B1	Not detected	2.0 ppb Max	A.O.A.C. International 20 <sup>th</sup> edition 2016,970.45 & 968.22F (TLC)
Aflatoxin B1 + B2 + G1 + G2	Not detected	4.0 ppb Max	



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### \* Microbiological Parameters:

Parameter	Results	Tolerance	Test Method
Aerobic Plate Count	2.1 x 10 <sup>2</sup>	4.0 x 10 <sup>4</sup> cfu/g Max	USFDA-BAM Online Edition, Jan 2001 Chapter 3
Coliforms	Not detected	Absent in 375g	USFDA-BAM Online, Jan 2011 Chapter 4
E. coli	Not detected	Absent in 375g	IS:5887 (Part I) 1976 Reaffirmed 1995
Enterobacteriaceae	<10	<100	IS/ISO 7402(2007)
Vibrio Cholera	Absent	Absent in 375g	IS:5887(Part-v):1976
Clostridium botulinum	Absent	Absent in 375g	IS:5887(Part-IV):1999
Flat Sour Organisms	Absent	Absent in 375g	APHA 5th Edition chapter-25
Listeria monocytogenes	Absent	Absent in 375g	IS:14988(Part- IV)ISO:11290(Part-1)
Yeast & Mold	0.6 X 10	1.0 x 10 <sup>3</sup> cfu/g Max	IS 5403 :1999
Salmonella	Not detected	Absent in 375g	USFDA-BAM Online, Latest Version May 2014, Chapter 5
Staphylococcus aureus	Not detected	1.0 x 10 <sup>2</sup> cfu/g Max	IS 5887 (Part 8/section 1) 2002, ISO 6888.1: 1999
Shigella	Absent	Absent in 375g	IS:5887(Part-IV):1999

*G. S. R. S.*