Laboratory Olam Quality Control Laboratory, Olam Agro India Private Limited

9/102, Resurvey No. V/178, Varikoli P.O., Puthencruz, Ernakulam,

Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7969 Page 1 of 3

Validity 10.10.2018 to 09.10.2020 Last Amended on --

	SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection	   
1				performed		ŀ

## **BIOLOGICAL TESTING**

H	ADUA Comment to FTb
1. Whole & Ground Total Plate Count of Spices, Herbs and Spice blends	, , , , , , , , , , , , , , , , , , ,
(Chillies, Yeast & Mold (cfu/ Turmeric, Coriander,	) APHA Compendium 5 <sup>Th</sup> ≤10cfu/g Edition Chapter 21 Page No. 277-279
Ginger, Total Coliforms(MF Black Pepper,	N) USFDA BAM September <3 MPN/g 2002 chapter 4
Cumin, E.Coli (MPN) Fennel,	USFDA BAM September <3 MPN/g 2002 chapter 4
Fenugreek, Nutmeg, White pepper, Cardamom, CloveThyme, Basil, Oregano, Parsley, Curry Powder)	USFDA BAM November Presence/Absence in 25g/50g/375g

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**Certificate Number** TC-7969 Page 2 of 3

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	CHEMICAL TESTING								
ī.	FOOD AND AGRICU	JLTURAL PRODUCTS							
1.	Whole & Ground Spices, Herbs and Spice blends (Chillies, Turmeric, Coriander, Ginger, Black Pepper, Cumin, Fennel, Fenugreek, Nutmeg, White pepper, Cardamom, Clove,Thyme, Basil, Oregano, Parsley, Curry Powder)	Moisture Content	ASTA Method 2.0 July 2011	1.0 % to 5.0 % 5.0% to 10 % 10 % to 25%					
		Volatile Oil	ASTA Method 5.2 March 2010	0.5% to 2.0 % 2.0% to 6.0 % 6.0% to 10.0%					
		Total Ash	ASTA Method 3.0 January 1997	0.1% to 5% 5.0% to10% 10% to15%					
		Acid insoluble ash	ASTA Method 4.0 January 1997	0.1% to 0.5% 0.5% to1% 1.0% to1.5%					
		Crude Fibre	ASTA Method 7.0 January 1997	10% to15% 15% to 25% 25% to 35%					
		Aflatoxin   (B1,B2,G1,G2) 	ASTA Method 24.2 January 1997	0.5µg/kg to 5 µg/kg 5µg/kg to30 µg/kg 30µg/kg to50 µg/kg					
	 	Ochratoxin A	SOP C8 Issue No: 1.0 Issue date: 05.03.2016 Revision date: 01.01.2018	5μg/kg to10 μg/kg 10μg/kg to 20 μg/kg 20μg/kg to 50 μg/kg					
	 	Light Filth (Insect Fragments, Rodent Hairs, Whole Insects, Feather Barbules)	AOAC 975.49 & 970.66	0 to 500 Numbers/Unit Mass					

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**Certificate Number** TC-7969 Page 3 of 3

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2.	Chillies	Capsaicin (Heat Value)	SOP C3 Issue No: 1.0 Issue date: 15/04/2014 Revision date: 01.01.2018	1000 SHU to 30000SHU 30000SHU to 70000SHU 70000 SHU to 20000SHU
     	 	Extractable Colour	ASTA Method 20.1 October 2004	10 to 50 ASTA units 50 to100 ASTA units 100 to 250 ASTA units
3.	Pepper	Piperine	AOAC 987.07 ASTA Method 12.1 April 14,2018	0.2% to 2.0 % 2.0% to 5.0 % 5.0% to 8.0 %
4.	Turmeric	Curcumin	ASTA Method 18.0 October 2004	0.5% to 4.0 % 4.0 % to 8.0 % 8.0 %to 13.0%
5.	Whole & Ground Spices and Spice Blends	Ethion Profenofos Tebuconazole Bifenthrin Triazophos	SOP C12 Issue No 1 Issue date: 01.08.2017	0.01 mg/kg to 5mg/kg 0.01 mg/kg to 5mg/kg 0.01 mg/kg to 5mg/kg 0.01 mg/kg to 5mg/kg 0.01mg/kg to 5mg/kg

Ashok kumar Convenor