

Laboratory Procomm Laboratories, National Bulk Handling Corporation Private Limited, F-314, IPIA, Road 06, Kota, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8332

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Validity 12.02.2019 to 11.02.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>CHEMICAL TESTING</u>				
I.	FOOD & AGRICULTURAL PRODUCTS			
A.	Cereals and Pulses & Cereal Products			
1.	Wheat, Chana, Maize, Barley, Rajma, Red gram	Foreign matter	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Damaged	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Other Food Grains	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Shrivelled/ Immature	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Varietal admixture	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Insect Damage	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Broken	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Green cotyledon grains	IS 4333 (Part 1)	0.1 % m/m to 10.0 % m/m
		Kernels with husk	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Slightly damaged/ Touched	IS 4333 (Part 1)	0.1 % m/m to 40.0 % m/m
		Undehusked split	IS 4333 (Part 1)	0.1 % m/m to 20.0 % m/m
		Moisture	IS 4333 (Part 2)	1.0 % m/m to 20.0 % m/m
		Test Weight	IS 4333 (Part 3)	70 % Kg/HL to 90 % Kg/HL

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Count	IS 4333 (Part 4)	200/ 100 g to 500/ 100 g
		Mass of 1000 grains	IS 4333 (Part 4)	10.0 g to 500.0 g
2.	Maize	Moisture content	ISO 6540	5.0 % m/m to 20.0 % m/m
B.	Oil Seeds & By products			
1.	Mustard, Soya bean seeds, sesame seeds Castor seeds	Moisture content	IS 3579	2.0 % m/m to 20.0 % m/m
		Impurities (As Foreign body)	IS 3579	0.1 % m/m to 40.0 % m/m
		Damaged, discolored (Other than green cotyledon), Insect infested beans.	IS 3579	0.1 % m/m to 40.0 % m/m
		Insect damaged matter	IS 3579	0.1 % m/m to 20.0 % m/m
		Immature, Shrivelled beans	IS 3579	0.1 % m/m to 20.0 % m/m
		Nooks	IS 3579	0.1 % m/m to 40.0 % m/m
		Oil content	IS 3579	5.0 % m/m to 50.0 % m/m
		Acid value of extracted oil	IS 3579	0.1 mg KOH/ g to 40.0 mg KOH/ g
2.	Soya bean	Splits, broken, cracked beans	IS 3579	0.1 % m/m to 40.0 % m/m
		Green Cotyledon seeds	IS 3579	0.1 % m/m to 20.0 % m/m
3.	Mustard	Unripe shriveled and slightly damaged	IS 3579	0.1 % m/m to 20.0 % m/m
		Small atrophied seeds	IS 3579	0.1 % m/m to 20.0 % m/m

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Admixture of other varieties of mustard	IS 3579	0.1 % m/m to 20.0 % m/m
C.	Spices & Condiments			
1.	Coriander, Cumin, fenugreek, Red chilli, Turmeric	Extraneous matter	IS 1797	0.1 % m/m to 20.0 % m/m
		Moisture	IS 1797	1.0 % m/v to 20.0 % m/v
		Insect damaged matter	IS 1797	0.1 % m/m to 20.0 % m/m
		Damaged, Shrivelled, discoloured and immature seeds	IS 1797	0.1 % m/m to 10.0 % m/m
		Edible seeds other than cumin seeds	IS 1797	0.1 % m/m to 5.0 % m/m
		Non-volatile ether extract (on dry basis)	IS 1797	1.0 % m/m to 25.0 % m/m
		Total ash (on dry basis)	IS 1797	0.5 % m/m to 15.0 % m/m
		Ash insoluble in Dil. HCl, (on dry basis)	IS 1797	0.1 % m/m to 10.0 % m/m
2.	Cumin and Coriander	Volatile Oil on dry basis, percent(v/w)	IS 1797	0.2 % m/m to 25.0 % m/m
3.	Turmeric	Defective rhizomes	IS 1797	0.1 % m/m to 40.0 % m/m
		Lead chromate test	IS 3576	Qualitative (Present/Absent)
		Inferior quality	IS 3576	0.1 % m/m to 40.0 % m/m
		Length	IS 1797	3.0 cm to 6.5 cm
		Damage due to moisture (i.e. Lokhandi or over boiling or Kadh)	IS 3576	0.1 % m/m to 5.0 % m/m

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		Unboiled or less boiled turmeric	IS 3576	0.1 % m/m to 5.0 % m/m
		Bulbs	IS 3576	0.1 % m/m to 40.0 % m/m
4.	Cumin	Seeds with Stalks	IS 1797	0.1 % m/m to 20.0 % m/m
		Test Weight (on count basis)	IS 1797	200/ g to 350/ g
5.	Red Chilli	Unripe and marked fruits	IS 2322	0.1 % m/m to 25.0 % m/m
		Broken fruits, seed and fragments	IS 1797	0.1 % m/m to 25.0 % m/m
		Length	IS 1797	2 cm to 8 cm
6.	Coriander	Split fruits	IS 1797	1.0 % m/m to 50.0 % m/m
D.	Legumes (Guar Gum)	Moisture	IS 7437	5.0 % m/m to 15.0 % m/m
		Ash	IS 7437	0.1 % m/m to 10.0 % m/m
		Protein	IS/ ISO 5983	1.0 % m/m to 15.0 % m/m
		Residue insoluble in acid,	IS 3988	0.1 % m/m to 10.0 % m/m
		Gum % (By difference)	IS 7437	60 % m/m to 90 % m/m
		Undehusked Splits	IS 4333 (Part I)	0.1 % m/m to 20.0 % m/m
		Material passing through test sieve - ASTM 14/IS 1.4 mm (Sieve test)	IS 460 (Part I)	0.1 % m/m to 5.0 % m/m
		Material passing through test sieve - ASTM 20/IS 0.85 mm (Sieve test)	IS 460 (Part I)	0.1 % m/m to 5.0 % m/m

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		Black, dark red and brown coloured splits	IS 4333 (Part I) & IS 2813	0.1 % m/m to 5.0 % m/m
		Foreign Particles (all non-gum particles)	IS 4333 (Part I)	0.1 % m/m to 5.0 % m/m
E.	Guar Seeds	Damaged seeds including mechanical injuries	IS 4333 (Part I)	0.1 % m/m to 5.0 % m/m
		Foreign matter	IS 4333 (Part 1)	0.1 % m/m to 5.0 % m/m
		Shrivelled/ Immature	IS 4333 (Part 1)	0.1 % m/m to 10.0 % m/m
		Moisture	IS 4333 (Part 2)	1.0 % m/m to 15.0 % m/m
		Other Food Grains	IS 4333 (Part 1)	0.1 % m/m to 10.0 % m/m
		Protein	IS 7437	5.0 % m/m to 40.0 % m/m
		Whitish seed	IS 3988	95.0 % m/m to 100.0 % m/m
II.	ANIMAL FOOD & FEEDS			
1.	Animal Feeds (Mustard oil cake, cotton oil cake, Soya DOC, Cattle feeds, Poultry feeds)	Moisture	IS/ISO 6496/ IS 7874 (Part 1)	1.0 % m/m to 15.0 % m/m
		Crude Protein (Nitrogen x 6.25)	IS/ISO 5983-2	5.0 % m/m to 50.0 % m/m
		Crude fat or ether extract	IS/ISO 6492 IS 7874 (Part 1)	1.0 % m/m to 10.0 % m/m
		Crude fiber	IS/ISO 6895/ IS 7874 (Part 1)	1.0 % m/m to 20.0 % m/m
		Total Ash	IS 14827 ISO 5984 IS 7874 (Part 1)	0.1 % m/m to 10.0 % m/m

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		Acid insoluble ash	IS 14826 ISO 5985 IS 7874 (Part 1)	0.05 % m/m to 5.0 % m/m
		Castor husk	GAFTA Method 24:0	Qualitative (Present/ Absent)
		Acid Value of Extracted Oil	IS 3579	0.1 % m/m to 20.0 % m/m