

Laboratory	Multani Pharmaceuticals Limited (Analytical Division), Khasra No. 37, Village: Makkanpur Mehmood Alam, Pargana: Bhagwanpur, Tehsil: Roorkee, Haridwar, Uttarakhand		
Accreditation Standard	ISO/IEC 17025: 2005		
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	AYUSH			
1.	Ayurvedic Drugs			
a.	Single Drug	Foreign matter	API (Part 1): 2001 Vol. 1, Appendix 2.2.2, Page. 142	0.1 % to 10 % w/w
		Total Ash	API (Part 1): 2001 Vol. 1, Appendix 2.2.3, Page. 143	0.1 % to 40 % w/w
		Acid Insoluble Ash	API (Part 1): 2001 Vol. 1, Appendix 2.2.4, Page. 143	0.1 % to 20 % w/w
		Alcohol Soluble Extractive	API (Part 1): 2001 Vol. 1, Appendix 2.2.6, Page. 143	2 % to 80 % w/w
		Water Soluble Extractive	API (Part 1): 2001 Vol. 1, Appendix 2.2.7, Page. 143	2 % to 80 % w/w
		Volatile Oil	API (Part 1): 2001 Vol. 1, Appendix 2.2.10, Page. 143	0.5 % to 15 % v/v
		Moisture Content (Loss on Drying)	API (Part 1): 2001 Vol. 1, Appendix 2.2.9, Page. 143	1 % to 15 % w/w
b.	Asav / Arishta	pH	API (Part 2): 2009 Vol. 2, Appendix 3.3, Page. 213	2.0 to 8.0
		Specific Gravity	API (Part 2): 2009 Vol. 2, Appendix 3.2, Page. 212	0.75 to 1.30
		Alcohol Content	API (Part 2): 2009 Vol. 2, Appendix 3.17, Page. 225	3.0 % to 15 % v/v

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	Asav / Arishta	Reducing Sugar	API (Part 2): 2009 Vol. 2, Appendix 5.1.3.2, Page. 265	5 % to 40 % w/v
		Non-reducing Sugar	API (Part 2): 2009 Vol. 2, Appendix 5.1.3.2, Page. 265	0.2 % to 30 % w/v
		Total Solid	API (Part 2): 2009 Vol. 2, Appendix 3.8, Page. 221	5 % to 40 % w/v
c.	Vati / Churna	Total Ash	API (Part 2): 2010 Vol. 3, Appendix 2.2.3, Page. 144	0.1 % to 40 % w/w
		Acid Insoluble Ash	API (Part 2): 2010 Vol. 3, Appendix 2.2.4, Page. 144	0.1 % to 20 % w/w
		Alcohol Soluble Extractive	API (Part 2): 2010 Vol. 3, Appendix 2.2.5, Page. 144	2 % to 80 % w/w
		Water Soluble Extractive	API (Part 2): 2010 Vol. 3, Appendix 2.2.6, Page. 145	5 % to 80 % w/w
		Loss on Drying	API (Part 2): 2010 Vol. 3, Appendix 2.2.8, Page. 145	1.0 % to 20 % w/w
		pH (10% w/v Solution)	API (Part 2): 2010 Vol. 3, Appendix 3.3, Page. 194	2.0 to 9.0
d.	Ghrita / Taila	Refractive Index at 40 °C	API (Part 2): 2010 Vol. 3, Appendix 3.1, Page. 193	1.333 to 1.550
		Specific Gravity at 40 °C	API (Part 2): 2010 Vol. 3, Appendix 3.2, Page. 193	0.800 to 1.000

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	Ghrita / Taila	Acid value	API (Part 2): 2010 Vol. 3, Appendix 3.9, Page. 201	0.1 to 10
		Peroxide value, meq./1000 g	API (Part 2): 2010 Vol. 3, Appendix 3.10, Page. 202	0.1 to 15
e.	Avleha	Loss on Drying	API (Part 2): 2007 Vol. 1, Appendix 2.2.10, Page. 141	10 % to 25 % w/w
		Total Ash	API (Part 2): 2007 Vol. 1, Appendix 2.2.3, Page. 140	0.1 % to 5 % w/w
		Acid inSoluble Ash	API (Part 2) : 2007 Vol. 1, Appendix 2.2.4, Page. 140	0.1 % to 5 % w/w
		Alcohol Soluble Extractive	API (Part 2): 2007 Vol. 1, Appendix 2.2.7, Page. 141	40 % to 80 % w/w
		Water Soluble Extractive	API (Part 2): 2007 Vol. 1, Appendix 2.2.8, Page. 141	40 % to 80 % w/w
		pH	API (Part 2): 2007 Vol. 1, Appendix 3.3, Page. 191	2.0 to 9.0
		Heavy metals (by AAS)		
		Lead	API (Part 2): 2007 Vol. 1, Appendix 2.3.7, Page. 158	0.01 mg/kg to 20 mg/kg
		Cadmium		0.01 mg/kg to 10 mg/kg
		Mercury		0.13 mg/kg to 10 mg/kg
		Arsenic		0.5 mg/kg to 20 mg/kg

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	Syrup	pH	API (Part 2): 2009 Vol. 2, Appendix 3.3, Page. 213	2.0 to 8.0
		Specific Gravity	API (Part 2): 2009 Vol. 2, Appendix 3.2, Page. 212	0.90 to 1.35
		Alcohol Content	API (Part 2): 2009 Vol. 2, Appendix 3.17, Page. 225	3.0 % to 15 % v/v
		Reducing Sugar	API (Part 2): 2009 Vol. 2, Appendix 5.1.3.2, Page. 265	5 % to 75 % w/v
		Total Solid	API (Part 2): 2009 Vol. 2, Appendix 3.8, Page. 221	5 % to 75 % w/v
		Heavy metals (by AAS)	API (Part 2): 2009 Vol. 2, Appendix 2.3.7, Page. 178	
		Lead		0.01 mg/l to 20 mg/l
		Cadmium		0.01 mg/l to 10 mg/l
		Mercury		0.13 mg/l to 10 mg/l
		Arsenic		0.5 mg/l to 20 mg/l
2.	Unani Drugs			
a.	Single Herbs	Foreign matter	UPI (Part 1): 2007 Vol. 1 Appendix 2.2.2, Page. 111	0.1 % to 10 % w/w
		Total Ash	UPI (Part 1): 2007 Vol. 1 Appendix 2.2.3, Page. 112	0.1 % to 40 % w/w

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	Single Herbs	Acid Insoluble Ash	UPI (Part 1): 2007 Vol. 1 Appendix 2.2.4, Page. 112	0.1 % to 20 % w/w
		Alcohol Soluble Extractive	UPI (Part 1): 2007 Vol. 1 Appendix 2.2.6, Page. 112	2 % to 80 % w/w
		Water Soluble Extractive	UPI (Part 1): 2007 Vol. 1 Appendix 2.2.7, Page. 113	2 % to 80 % w/w
b.	Ark (Arq-e-Ajeeb, Araq-e-Ajwain, Araq-e-Badiyan, Araq-e-Kasni, Araq-e-Mako)	pH (as it is)	UPI (Part 2): 2009 Vol. 1 Appendix 3.3, Page. 200	1 to 12
		Weight per ml (g)	UPI (Part 2): 2009 Vol. 1 Appendix 3.2, Page. 199	0.900 to 1.200
		Refractive index	UPI (Part 2): 2009 Vol. 1 Appendix 3.1, Page. 199	1.30 to 1.70
		Heavy metals (by AAS)		
		Lead	UPI (Part 2): 2009 Vol. 1 Appendix 2.3.7, Page. 164	0.01 mg/l to 20 mg/l
		Cadmium		0.01 mg/l to 10 mg/l
		Mercury		0.13 mg/l to 10 mg/l
		Arsenic		0.5 mg/l to 20 mg/l

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c.	Majoon(Itrifal Zamani, Jawarish AmlaSada, Jawarish-e-Anarain, Majoon-e-Suparipak, Majoon-e-Nankhwah, Majoon-e-Jograaj Gugal, Majoon-e-Dabidul Ward, Majoon-e-Chobchini, Majoon-e-Aarad Khurma, Khamira-e-Gaozaban Saada, Khamira-e-Abresham Saada)	Total Ash (% w/w)	UPI (Part 2):2009 Vol. 1 Appendix 2.2.3, Page. 146	0.1 % to 40 % w/w
		Acid inSoluble Ash (% w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.4, Page. 146	0.1 % to 20 % w/w
		Alcohol Soluble matter (% w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.7, Page. 146	2 % to 70 % w/w
		Water Soluble matter (% w/w)	UPI (Part 2):2009 Vol. 1 Appendix 2.2.8, Page. 147	2 % to 70 % w/w
		pH of 1% aqueous Solution	UPI (Part 2): 2009 Vol. 1 Appendix 3.3, Page. 200	2 to 10
		pH of 10% aqueous Solution	UPI (Part 2): 2009 Vol. 1 Appendix 3.3, Page. 200	2 to 10
		Reducing Sugar (%w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 5.1.3.1, Page. 261	20 % to 80 %w/w
		Non-reducing Sugar (%w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 5.1.3.3, Page. 261	20 % to 80 %w/w
		Moisture Content (%w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.10, Page. 147	2 % to 25 %w/w
		Heavy metals (by AAS)	UPI (Part 2): 2009 Vol. 1 Appendix 2.3.7, Page. 164	
Lead		0.01 mg/kg to 20 mg/kg		
Cadmium		0.01 mg/kg to 10 mg/kg		
Mercury		0.13 mg/kg to 10 mg/kg		
Arsenic		0.5 mg/kg to 20 mg/kg		

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d.	Habb	Total Ash (% w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.3, Page. 146	0.1 % to 8 %w/w
		Acid inSoluble Ash (% w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.4, Page. 146	0.1 % to 4 %w/w
		Alcohol Soluble matter (% w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.7, Page. 146	2 % to 40 %w/w
		Water Soluble matter (% w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.8, Page. 147	2 % to 80 %w/w
		pH of 1% aqueous Solution	UPI (Part 2): 2009 Vol. 1 Appendix 3.3, Page. 200	2 to 8
		Moisture Content (%w/w)	UPI (Part 2): 2009 Vol. 1 Appendix 2.2.10, Page. 147	2 % to 40 %w/w
		Heavy metals (by AAS)	UPI (Part 2): 2009 Vol. 1 Appendix 2.3.7, Page. 164	
		Lead		0.01 mg/kg to 20 mg/kg
		Cadmium		0.01 mg/kg to 10 mg/kg
		Mercury		0.13 mg/kg to 10 mg/kg
	Arsenic		0.5 mg/kg to 20 mg/kg	
3.	Homeopathic Drugs			
a.	Alcohol Fortis-Strong Alcohol	Identification (i, 2 & 3)	HPI 1971, Vol. 1 Page. 37	Qualitative
		Acidity or Alkalinity		Qualitative

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Alcohol Fortis-Strong Alcohol	Aldehydes	HPI 1971, Vol. 1 Page. 37	Qualitative
		Ketones		Qualitative
		Fusel Oil and allied impurities		Qualitative
		Oily or resinous substances		Qualitative
		Non-volatile matter		0.001 % to 0.1 %w/v
b.	Arsenicum sulphuratum flavum	Identification	HPI 1971, Vol. 1 Page. 60	Qualitative
c.	Carcarea Phosphorica	Identification	HPI 1971, Vol. 1 Page. 85	Qualitative
		Arsenic	HPI 1971, Vol. 1 Page. 240, Appendix V3, B	Qualitative
		Chloride	HPI 1971, Vol. 1 Page. 240, Appendix V3, A	Qualitative
		Sulphate	HPI 1971, Vol. 1 Page. 240, Appendix V3, A	Qualitative
d.	Mother Tincture of Azadirachtaindica	Alcohol Content	HPI 1971, Vol. 1, Page. 245 Appendix X2	50 % to 80 %v/v
		pH	HPI 1971, Vol. 1, Page. 227 Appendix 3 (C)	4 to 8
		Weight per ml	HPI 1971, Vol. 1, Page. 233 Appendix VI	0.80 g to 0.95 g

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Mother Tincture of Azadirachtaindica	Total Solids	HPI 1971, Vol. 1, Page. 245 Appendix XI (C)	0.1 % to 5.0 %w/v
		Identification	HPI 1990, Vol. 6, Page. 134	Qualitative
e.	Mother Tincture of Nuxvomica	Alcohol Content	HPI 1971, Vol. 1, Page. 245 Appendix X2	50 % to 80 %v/v
		pH	HPI 1971, Vol. 1, Page. 227 Appendix 3 (C)	2 to 9
		Weight per ml	HPI 1971, Vol. 1, Page. 233 Appendix VI	0.80 g to 1.1 g
		Total Solids	HPI (1971), Vol. 1, Page. 245 Appendix XI(C)	0.1 % to 5.0 %w/v
		Λ max	HPI 1990, Vol. 6, Page. 180	Qualitative
		Identification	HPI 1990, Vol. 6, Page. 180	Qualitative
II. DRUGS & PHARMACEUTICALS				
1.	Pharmaceuticals Raw Materials (General Test)	Solubility	IP 2014, Vol. 1, Page. 174, 2.4.26	Qualitative
			BP 2016, Vol. 1, Page. 1 to 11	Qualitative
			USP 2015, Vol. 1, Page. 6,5.30	Qualitative

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	Pharmaceuticals Raw Materials (General Test)	Identification	IP 2014, Vol. 1, Page. 139, 2.4.7	Qualitative
			BP 2016, Vol. 5, Page. V-A 170 Appendix 2 B	Qualitative
			USP 2015, Vol. 1, Page. 221	Qualitative
		Loss on Ignition	IP 2014, Vol. 1, Page. 163, 2.4.20 USP 2015, Vol. 1, Page. 514	0.1 % to 20 %w/w
		Sulphated Ash	IP 2014, Vol. 1, Page. 98, 2.3.18 BP 2016, Vol. 5, Page. V-309 Appendix IXA USP 2015, Vol. 1, Page. 260	0.05 % to 1.0 %w/w
		Melting Range	IP 2014, Vol. 1, Method IV, Page. 165, 2.4.21 BP 2016, Vol. 5, Method VI, Page. V-242 Appendix V A USP 2015, Vol. 1, Method 2, Page. 525	40 °C to 300 °C
	pH	IP 2014, Vol. 1, Page. 169, 2.4.24 BP 2016, Vol. 5, Page. V-A-253 Appendix V L USP 2015, Vol. 1, Page. 556	1 to 12	

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	Pharmaceuticals Raw Materials (General Test)	Specific Optical Rotation & Optical Rotation	IP 2014, Vol. 1, Page. 167, 2.4.22 BP 2016, Vol. 5, Page. V-A245 Appendix V F USP 2015, Vol. 1, Page. 540	(-)180 ° to (+)180 °
		Refractive Index	IP 2014, Vol. 1, Page. 203, 2.4.27 BP 2016, Vol. 5, Page. V-A245 Appendix V E USP 2015, Vol. 1, Page. 636	1.300 to 1.700
		Heavy metals	IP 2014, Vol. 1, Page. 96, 2.3.13 BP 2016, Vol. 5, Page. V-A273 Appendix V2 USP 2015, Vol. 1, Page. 241	Qualitative
		Water by KF	IP 2014, Vol. 1, Method 3, Page. 113, 2.3.43 (Method-1) BP 2016, Vol. 5, Method 1, Page. V-A310 Appendix IX C USP 2015, Vol. 1, Method 1c, Page. 688	0.1 % to 20 %w/w
		Loss on Drying	IP 2014, Vol. 1, Method-A, Page. 162, 2.4.19 BP 2016, Vol. 5, Page. V-A312 Appendix IX D USP 2015, Vol. 1, Page. 513	0.1 % to 20 %w/w

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2.	Ciprofloxacin Hydrochloride	Identification A	IP 2014, Page. 1402	Qualitative
		pH of 2.5 %w/v in water	IP 2014, Page. 1402	2 to 7
		Water	IP 2014, Page. 1402	2.0 % to 8.0 % w/w
		Assay	IP 2014, Page. 1402	80 % to 110 % w/w
3.	Paracetamol	Identification A	IP 2014, Page. 2429	Qualitative
		Loss on Drying	IP 2014, Page. 2430	0.01 % to 2.0 %w/w
		Assay	IP 2014, Page. 2430	80 % to 110 %w/w
4.	Ciprofloxacin Tablets	Identification A	IP 2014, Page. 1403	Qualitative
		Dissolution	IP 2014, Page. 1403-1404	40 % to 100.0 % w/w
		Assay	IP 2014, Page. 1404	50 % to 150 % of Claim (w/w)
5.	Paracetamol Syrup	4-Aminophenol	IP 2014, Page. 2433	Not Detected to 1.0 %
		Assay %w/v	IP 2014 Page. 2433	50 % to 150 % of claim (w/v)
6.	Paracetamol Tablets	Related substances	IP 2014, Page. 2434	
		4-aminophenol		Not Detected to 1.0 %
		4-Chloroacetanilide		Not Detected to 60 ppm
		Any secondary peak		Not Detected to 10 %
		Dissolution	IP 2014, Page. 2434	40 % to 100.0 %w/w
		Assay	IP 2014, Page. 2434	50 % to 150 %w/w

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Convenor

N. Venkateswaran
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III. COSMETICS & ESSENTIAL OILS				
1.	Toothpaste	Fineness:		
		Particle retained on 150 μ IS sieve, percent by mass	IS 6356: 2001, (RA 2006)	0.5 to 2.5
		Particle retained on 75 μ IS sieve, percent by mass	IS 6356: 2001, (RA 2006)	1.0 to 5.0
		pH of aqueous Solution	IS 6356: 2001, (RA 2006)	4 to 12
		Heavy metals (as Lead), parts per million	IS 6356: 2001, (RA 2006)	Qualitative
		Arsenic (as As ₂ O ₃), parts per million	IS 6356: 2001, (RA 2006)	Qualitative
		Foaming power, ml	IS 6356: 2001, (RA 2006)	50 to 200
2.	Tooth Powder	Fineness:		
		Particle retained on 75 μ IS sieve, percent by mass	IS 5383: 2006	1.0 to 5.0
		Particle retained on 150 μ IS sieve, percent by mass	IS 5383: 2006	0.5 to 2.5
		Moisture & volatiles matter, percent by mass	IS 5383: 2006	0.5 % to 10.0 %

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	Tooth Powder	pH of 50 percent aqueous suspension	IS 5383: 2006	3 to 12
		Foaming power , ml	IS 5383: 2006	50.0 ml to 200.0 ml
		Heavy metals (as Lead), parts per million	IS 5383: 2006	Qualitative
		Arsenic (as As ₂ O ₃), parts per million	IS 5383: 2006	Qualitative
3.	Shampoo	Physical characteristics	IS 7884: 2004 (RA 2009)	Qualitative
		Non-volatile alcohol Soluble matter, percent by mass	IS 7884: 2004 (RA 2009), Annexure. B	5 % to 50 %
		pH	IS 7884: 2004 (RA 2009), Annexure. C	2.0 to 9.0
		Foam height for two percent Solution	IS 7884: 2004 (RA 2009), Annexure. D	100 mm to 300 mm
4.	Hair Oils	Acid value	IS 7123:1993 (RA 2009), Annexure. A-2	1 to 10
		Peroxide value	IS 7123:1993 (RA 2009), Annexure. A-4	1 meq/kg to 10 meq/kg
IV.	FOOD & AGRICULTURAL PRODUCTS			
1.	Milk Bread	Total Solid Content	IS 1483: 1988, (RA 2010), Appendix. B Page. 4	(40.0 g to 90 g)/100 g

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	Milk Bread	Acid inSoluble Ash (On dry basis)	IS 1483: 1988, (RA 2010), Appendix. D Page. 5	(0.05 g to 0.5 g)/100 g
		Crude fiber (On dry basis)	IS 1483: 1988, (RA 2010), Appendix. E Page. 6	(0.05 g to 0.5 g)/100 g
		pH of the bread (10% aqueous Solution)	IS 1483: 1988, (RA 2010), Appendix. C Page. 4 & 5	4.0 to 8.0
		Alcoholic acidity (as H ₂ SO ₄), (On dry basis)	IS 11231: 1985, (RA 2010) Appendix. B Page. 16	(0.1 g to 0.50 g)/100 g
2.	Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt	Moisture	IS 7224: 2006, (RA 2010), Annexure. A Page. 3	(0.1 g to10.0 g)/100 g
		Water inSoluble matter (On dry basis)	IS 7224: 2006, (RA 2010), Annexure. C Page. 4	(0.1 g to 3.0 g)/100 g
		Chloride Content (as NaCl), (On dry basis)	IS 7224: 2006, (RA 2010), Annexure. D Page. 4	(80.0 g to 99.0 g)/100 g
		Matter Soluble in water other than sodium chloride (On dry basis)	IS 7224: 2006, (RA 2010), Annexure. E Page. 5	(0.5 g to 5.0 g)/100 g
		Calcium (as Ca), (On dry basis)	IS 7224: 2006, (RA 2010), Annexure. F Page. 5&6	(0.05 g to 1.0 g)/100 g
		Magnesium(as Mg), (On dry basis)	IS 7224: 2006, (RA 2010), Annexure. F Page. 5&6	(0.05 g to 1.0 g)/100 g

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Discipline **Chemical Testing** **Issue Date** **19.05.2016**

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt	Sulphate (as SO ₄), (On dry basis)	IS 7224: 2006, (RA 2010), Annexure. F Page. 6	(0.05 g to 1.0 g)/100 g
		Alkalinity (as Na ₂ CO ₃),	IS 7224: 2006, (RA 2010), Annexure. J Page. 9	(0.05 g to 0.7 g)/100 g
		Iodine Content (On dry basis)	IS 7224: 2006, (RA 2010) (Annexure H, Method B, Page. 8)	10.0 mg/kg to 60.0 mg/kg
V.	ANIMAL FEED			
1.	Dog Feeds	Moisture Content	IS 7874 (Part 1): 1975, (RA 2009)	(4.0 g to 15.0 g)/100 g
		Crude Protein (N X 6.25), (on moisture free basis)	IS 7874 (Part 1): 1975 (RA 2009), Clause. 5, Page. 4,5,6 & 7	(10.0 g to 30.0 g)/100 g
		Crude Fat (on moisture free basis)	IS 7874 (Part 1): 1975, (RA 2009), Clause. 7, Page. 10	(2.0 g to 10.0 g)/100 g
		Crude Fibre (on moisture free basis)	IS 7874 (Part 1): 1975, (RA 2009) Clause. 8, Page. 10 & 11.	(2.0 g to 10.0 g)/100 g
		Acid inSoluble Ash (on moisture free basis)	IS 7874 (Part 1): 1975, (RA 2009) Clause. 10, Page. 12.	(0.01 g to 10.0 g)/100 g

