



NABL

National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

CENTRE FOR ANALYSIS AND LEARNING IN LIVESTOCK AND FOOD

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

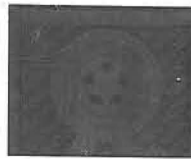
National Dairy Development Board, Anand, Gujarat
in the discipline of
CHEMICAL TESTING

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number T-2678

Issue Date 14/10/2013

Valid Until 13/10/2015



This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran
Convenor

Anil Relia
Director

Dr. T. Ramasami
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन
प्रयोगशाला प्रत्यायन बोर्ड
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

सेंटर फॉर एनालिसिस एंड लर्निंग इन लाइवस्टॉक एंड फूड

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

आनंद, गुजरात

में स्थित इसकी सुविधाओं के लिए

रासायनिक परीक्षण

के विषय क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के विषय क्षेत्र की जानकारी एन ए बी एल वेबसाइट www.nabl-india.org से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या प - 2678

जारी करने की तिथि 14/10/2013

वैधता की तिथि 13/10/2015

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

एन. वेंकटेश्वरन

संयोजक

अनिल रेलिया

निदेशक

डा. टी. रामसामी

अध्यक्ष



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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
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I. FOOD & AGRICULTURAL PRODUCTS

1 (a) Milk and Dairy Products (Nutritional / Compositional)

i	Cheese	Fat	IS 2785: 1979 (Appendix B)	1.5 to 65 %
		Salt as NaCl	IS 11763:2005	0.5 to 4 %
		Total Solid	IS 2785:1979 (Appendix A)	20 to 95 %
	Moisture	IS 2785:1979 (Appendix A)	10 to 80 %	
ii	Milk Powder	Fat	IS 11721:2005	1 to 40 %
		Titrateable Acidity (as lactic acid)	IS 1165: 2002 (Annex B)	0.5 to 3 %
		Moisture	IS 11623: 986	1 to 8 %
			IS 16072: 2012	1 to 8 %
		Total Ash	IS 1165:2002 (Annex A)	0.5 to 15 %
		Lactose	ISO-22662:2007	0.5 to 50 %
		Insolubility Index	IS 12759:1989	0.1 to 3 ml
		Protein	AOAC 991.21 18 th Edn.	10 to 40 %
Total Solid	IS 11623:1986	92 to 99 %		
Total Solid	IS 16072:2012	92 to 99 %		

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iii.	Paneer	Fat	IS 10484:1983 (Appendix B)	4 to 70 %
		Protein	AOAC 991.23, 18 th Edn.	5 to 40 %
		Total Solid	IS 10484:1983 (Appendix A)	20 to 90 %
		Moisture	IS 10484:1983 (Appendix A)	10 to 80 %
iv.	Raw Milk	Protein	AOAC 991.20, 18 th Edn.	2 to 6 %
		pH	IS: 1479 (Part II):1961	5 to 9
v.	Shrikhand	Fat	IS 1166:1986	1 to 15 %
		Protein	AOAC 991.22, 18 th Edn.	2 to 20 %
		Titrateable Acidity (as lactic acid)	IS 1166:1986 (Appendix D)	0.5 to 3 %
		Total Solid	IS 1166: 1986 (Appendix B)	30 to 70 %
		Moisture	IS 1166: 1986 (Appendix B)	20 to 60 %
		Total Ash	IS 14433: 2007	0.3 to 2 %
vi.	Skim Milk Powder	Sugar (Sucrose)	IS 9532: 1980	20 to 80 %
		Lactose	ISO : 22662: 2007	0.5 to 50 %
		Total Solid	IS 11623: 1986	92 to 99 %
		Total Solid	IS 16072: 2012	92 to 99 %
		Fat	IS 11721:2005	0.75 to 2.5 %

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		Titrateable Acidity (as lactic acid)	IS 11766: 1986	0.5 to 3 %
		Moisture	IS 11623:1986	1 to 8 %
		Moisture	IS 16072:2012	1 to 8 %
		Total Ash	IS 14433: 1997 (Part 1) (Annex B)	0.5 to 15 %
		Scorched particles	IS 13500:1992	7.5 to 32.5 mg
		Insolubility Index	IS 12759: 1989	0.1 to 3 ml
		Protein	AOAC 991.21, 18 th Edn.	20 to 40 %
vii.	Infant Food	Vitamin C	AOAC 985.33, 18 th Edn.	40 to 400 mg/100 g
1 (b)	Milk and Dairy Products (Residues & Contaminants)			
i.	Milk Powder/Skim Milk Powder	Melamine	CALF/SOP/CHEM/CCR/15- (Issue date:16/10/2012)	1 to 10 mg/kg
	Raw Milk	Arsenic	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	50 to 500 µg/kg
		Cadmium	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	50 to 500 µg/kg
		Lead	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	10 to 100 µg/kg
		Tin	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.05 to 10 mg/kg

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		Total Residual Antibiotics	CALF/SOP/CHEM/CCR/07- (Issue date:17/12/2009)	4 µg/kg
		Ivermectin	CALF/SOP/CHEM/CCR/01- (Issue date:03/07/2013)	5 to 50 µg/kg
		Albendazole	CALF/SOP/CHEM/CCR/16- (Issue date:18/06/2013)	50 to 300 µg/kg
		Fenbendazole	CALF/SOP/CHEM/CCR/16 – (Issue date:18/06/2013)	50 to 300 µg/kg
2 (a)	Animal Feeds (Proximate)			
i.	Compounded Feed and Feed Ingredients	Moisture	IS 7874 Part I: 1975	1 to 20 %
		Crude protein	IS/ISO 5983 Part 2 :2005	1 to 60 %
		Crude fiber	EC No. 152/2009; I of Annex III	1.5 to 50 %
		Crude Fat	EC No. 152/2009; H of Annex III	1 to 30 %
		Total ash	EC No 152/2009 M of Annex III	0.5 to 20 %
		Acid Insoluble Ash	IS 7874 Part I: 1975	0.5 to 20 %
			EC No 152/2009 N of Annex III	0.5 to 20 %
		Urea	IS 14832: 2000	0.5 to 2 %
		Available Phosphorus	IS 1374: 1992 Appendix C with ICP-OES	0.2 to 2 %
		Vitamin A (as retinol)	IS 15120: 2002	1000 to 25000 IU/kg

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		Vitamin D3	IS 2052: 2009	1000 to 20000 IU /kg
		Vitamin E	EN 2000/45/EC	5 to 100 IU/kg
		Salt as NaCl	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.2 to 3 %
		Calcium	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.3 to 2 %
		Phosphorus	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.3 to 2 %
		Copper	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	5 to 200 mg/kg
		Iron	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	75 to 500 mg/kg
		Magnesium	CALF/SOP/CHEM/MMS/06 – (Issue date:02/07/2013)	50 to 1000 mg/kg
		Manganese	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	10 to 200 mg/Kg
		Sodium	CALF/SOP/CHEM/MMS/06 – (Issue date:02/07/2013)	500 to 20,000 mg/kg
		Sulphur	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	400 to 4000 mg/kg
		Zinc	CALF/SOP/CHEM/MMS/06 – (Issue date:02/07/2013)	20 to 200 mg/kg

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ii.	Mineral Mixture	Moisture	IS 5470: 2002 (Annex A)	0.5 to 10%
		Silica / Acid Insoluble Ash	IS 7874 Part 1: 1975	0.5 to 10%
		Total Ash	IS 5470: 2002 (Annex C)	60 to 95%
		Calcium	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	10 to 30 %
		Cobalt	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.006 to 0.03 %
		Copper	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.05 to 0.5 %
		Iron	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.05 to 1 %
		Magnesium	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	2.5 to 10 %
		Manganese	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.05 to 0.5 %
		Phosphorus	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	5 to 25 %
		Sulphur	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.4 to 8 %
	Zinc	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.2 to 2 %	

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iii.	Vitamins pre-mix/feed supplements	Vitamin A (as retinol)	AOAC 2001.13, 18 th Edn.	100000 to 1400000 IU/gm 300 to 2500 IU/gm
		Vitamin D3	AOAC 979.24, 18 th Edn.	25000 to 300000 IU/g
		Vitamin E	EN 2000/45/EC	50 to 2500 mg/kg
2 (b)	Animal Feed (Residues & Contaminants)			
i.	Compounded Cattle Feed and Feed Ingredients	Selenium	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	2 to 20 mg/kg
		Arsenic	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	1 to 10 mg/kg
		Cadmium	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	1 to 10 mg/kg
		Lead	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	1 to 10 mg/kg
		Mercury	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	1 to 10 mg/kg
	Tin	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	1 to 10 mg/kg	
ii.	Mineral Mixture	Arsenic (as As ₂ O ₃)	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	3 to 30 mg/kg
		Lead	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	10 to 50 mg/kg

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3.	Mycotoxins in Food and Feed			
i.	Milk Powder/ Skim milk powder	Aflatoxin M1	CALF/SOP/CHEM/CCR/09 – Issue date:17/12/2009	0.2 to 8 µg/kg
ii.	Animal Feed	Aflatoxin B1	CALF/SOP/CHEM/CCR/13- Issue date:20/04/2010	5 to 100 µg/ kg
II.	WATER			
i.	Water for Processed food Industry	Total dissolved solids	IS 3025: 1964	100 to 1200 mg/L
		pH	IS 3025: 1964	5 to 10
		Total Hardness (as CaCO ₃)	IS 3025: Part A : 1964	10 to 1000 mg/L
		Alkalinity	IS 3025:1964	30- 600 mg/L
		Aluminium	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.02 to 0.3 mg/L
		Arsenic	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.1 to 0.5 mg/L
		Cadmium	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.005 to 0.05 mg/L
		Calcium	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	1 to 400 mg/L
	Chloride	IS 3025: Part 32: 1988	100 to 500 mg/L	
	Copper	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.05 to 3 mg/L	

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		Fluoride	CALF/SOP/CHEM/MMS/05 (Issue date:02/07/2013)	0.5 to 3 mg/L
		Iron	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.1 to 3 mg/L
		Lead	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.05 to 0.2 mg/L
		Magnesium	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	10 to 300 mg/L
		Manganese	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.05 to 0.5 mg/L
		Mercury	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.0005 to 0.05 mg/L
		Selenium	CALF/SOP/CHEM/MMS/07- (Issue date:02/07/2013)	0.003 to 0.1 mg/L
		Sodium	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	10 to 200 mg/L
		Zinc	CALF/SOP/CHEM/MMS/06- (Issue date:02/07/2013)	0.5 to 30 mg/L

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