



## Federation for Development of Accreditation Services

### **CERTIFICATE OF ACCREDITATION** **(AS PER ISO/IEC 17025:2017)**

This is to attest that

**M/s Center for Advanced Research,**  
A05, Babessa, Samling Plaza,  
Thimphu, 1101, Bhutan.

#### **Testing Laboratory**

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for testing laboratories.

**Certificate Number:** TL-111

**Issue Date:** 01/06/2023

**Valid Until:** 31/05/2025

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website [www.fdasindia.org](http://www.fdasindia.org)).

  
**DEVI SARAN TEWARI**  
Director



## SCOPE OF ACCREDITATION

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 1/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

### Biological Testing

#### Laboratory based Testing

**Group:** Food and Agricultural Products

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
1.	Feed	Yeast & Mold	Soleris Direct Yeast and Mold Test Certificate 051301	Soleris NGN
		Coliform	Soleris Direct Vials Certificate 010302	
2.	Water	E. coli	Soleris E. coli Medium Vial Certificate 101101	
		Coliform	Soleris Coliform Vials Certificate 010302	
		Pseudomonas	Soleris Pseudomonas spp. Alternative Method	
		Yeast & Mold	Soleris Direct Yeast and Mold Test Certificate 051301	
		Salmonella	Soleris Salmonella Vials Certificate 16104	
3.	Ready to eat (RTE) food	E. coli	Soleris E. coli Medium Vial Certificate 101101	
		Enterobacteriaceae	Soleris Enterobacteriaceae Vial Certificate 121901	
		Salmonella	Soleris Salmonella Vials Certificate 16104	
		Staphylococcus	Soleris Staphylococcus spp. Alternative Method	

  
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## SCOPE OF ACCREDITATION

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 2/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

### Biological Testing

#### Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
4.	Spices	Salmonella	Soleris Salmonella Vials Certificate 16104	Soleris NGN
5.	Fresh Produce	Yeast and Mold	Soleris Direct Yeast and Mold Test Certificate 051301	
		Coliform	Soleris Coliform Vials Certificate 010302	
		E. coli	Soleris E. coli Medium Vial Certificate 101101	
6.	Dairy Products	Yeast and Mold	Soleris Direct Yeast and Mold Test Certificate 051301	
		Coliform	Soleris Coliform Vials Certificate 010302	
		E. coli	Soleris E. coli Medium Vial Certificate 101101	
		Enterobacteriaceae	Soleris Enterobacteriaceae Vial Certificate 121901	
		Salmonella	Soleris Salmonella Vials Certificate 16104	
7.	Alcohol and Beverages	Yeast and Mold	Soleris Direct Yeast and Mold Test Certificate 051301	
		Coliform	Soleris Coliform Vials Certificate 010302	

  
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# Federation for Development of Accreditation Services

## SCOPE OF ACCREDITATION

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 3/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

### Biological Testing

#### Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		E. coli	Soleris E. coli Medium Vial Certificate 101101	Soleris NGN
8.	Cereals	Enterobacteriaceae	Soleris Enterobacteriaceae Vial Certificate 121901	
		E. coli	Soleris E. coli Medium Vial Certificate 101101	
		Salmonella	Soleris Salmonella Vials Certificate 16104	
		Staphylococcus	Soleris Staphylococcus spp. Alternative Method	
		Yeast and Mold	Soleris Direct Yeast and Mold Test Certificate 051301	
9.	Meat and Meat Products	E. coli	Soleris E. coli Medium Vial Certificate 101101	
		Salmonella	Soleris Salmonella Vials Certificate 16104	

  
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## SCOPE OF ACCREDITATION

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 4/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

### Chemical Testing

#### Laboratory based Testing

**Group:** Food and Agricultural Products

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used	
1.	Dairy and Dairy Products	Cheese	Moisture	Perkin Elmer DA NIR 7250 method for Dairy & Dairy Products	DA NIR 7250
			Fat		
			Salt		
			Protein		
			pH		
		Salted butter	Moisture		
			Fat		
			Salt		
		Unsalted butter	Moisture		
			Fat		
		Yoghurt	Dry Matter		
			Fat		
		Raw milk	Fat		
			Protein		
Lactose					
Solid non fat					
Homogenized milk	Fat				
2.	Meat	Fat	Perkin Elmer DA NIR 7250 method for Raw Meat & Meat Products		
		Moisture			
		Protein			
		Collagen free protein			
		Salt			
		Ash			

  
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## SCOPE OF ACCREDITATION

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 5/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

### Chemical Testing

#### Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
3.	Feed Monogastric feed (Chick, broiler, layer poultry, Piglet, sow and grower pig)	Moisture	Perkin Elmer DA NIR 7250 method for Feed Products	DA NIR 7250
		Protein		
		Starch		
		Ash		
		Sugar		
		Calcium		
		Phosphorus		
		Fats		
		Fiber		
		Ruminant feed		
	Protein			
	Fat			
	Fiber			
	NDF			
	ADF			
	ADL			
	Starch			
	Barley	Ash		
		Calcium		
		Phosphorus		
		Moisture		
Protein				
Starch				
Fiber				

  
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## SCOPE OF ACCREDITATION

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 6/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

### Chemical Testing

#### Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
	Corn	Moisture	Perkin Elmer DA NIR 7250 method for Feed Products	DA NIR 7250
		Protein		
		Oil		
		Starch		
	Oats	Moisture		
		Protein		
		Fat		
		Ash		
		Crude Fiber		
	Lentils (Red and green beans)	Moisture		
		Protein		
	Rice (White polished)	Moisture		
		Protein		
		Starch		
	Peas	Moisture		
		Protein		
	Sorghum (Finger millet)	Moisture		
		Protein		
	Wheat	Moisture		
		Protein		
	Corn grits	Moisture		
Protein				
Oil				
Ash				
Crude Fiber				
Starch				

  
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**SCOPE OF ACCREDITATION**

Laboratory Name M/s Centre for Advanced Research, Thimphu, Bhutan  
Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 7/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

**Chemical Testing**

**Laboratory based Testing**

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used	
4.	Alcohol & Beverages	Beer bottom	Perkin Elmer DA NIR 7250 method for Ethanol	DA NIR 7250	Solids
					Dextrin
					DP4
					Maltose
					Glucose
					Lactic Acid
					Glycerol
					Acetic Acid
					Ethanol
		Beer well			Brix
					Solids
					Dextrin
					DP4
					Maltose
					Glucose
					Fructose
					Lactic Acid
		Ethanol			
		Fermentation broth			Brix
					Dextrin
					DP4
					DP3
					Maltose
					Glucose
Lactic Acid					
Glycerol					
Acetic Acid					
Ethanol					

*Anand*  
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Accreditation Standard ISO/IEC 17025:2017  
Certificate Number TL- 111 Page No.: 8/8  
Validity 01.06.2023 to 31.05.2025 Last Amended on .....

#### Chemical Testing

#### Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
	Mash	Total Solids	Perkin Elmer DA NIR 7250 method for Ethanol	DA NIR 7250
		pH		
		Brix		
		DP4		
		DP3		
		Maltose		
		Glucose		
		Lactic Acid		
		Acetic Acid		
		Ethanol		

  
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