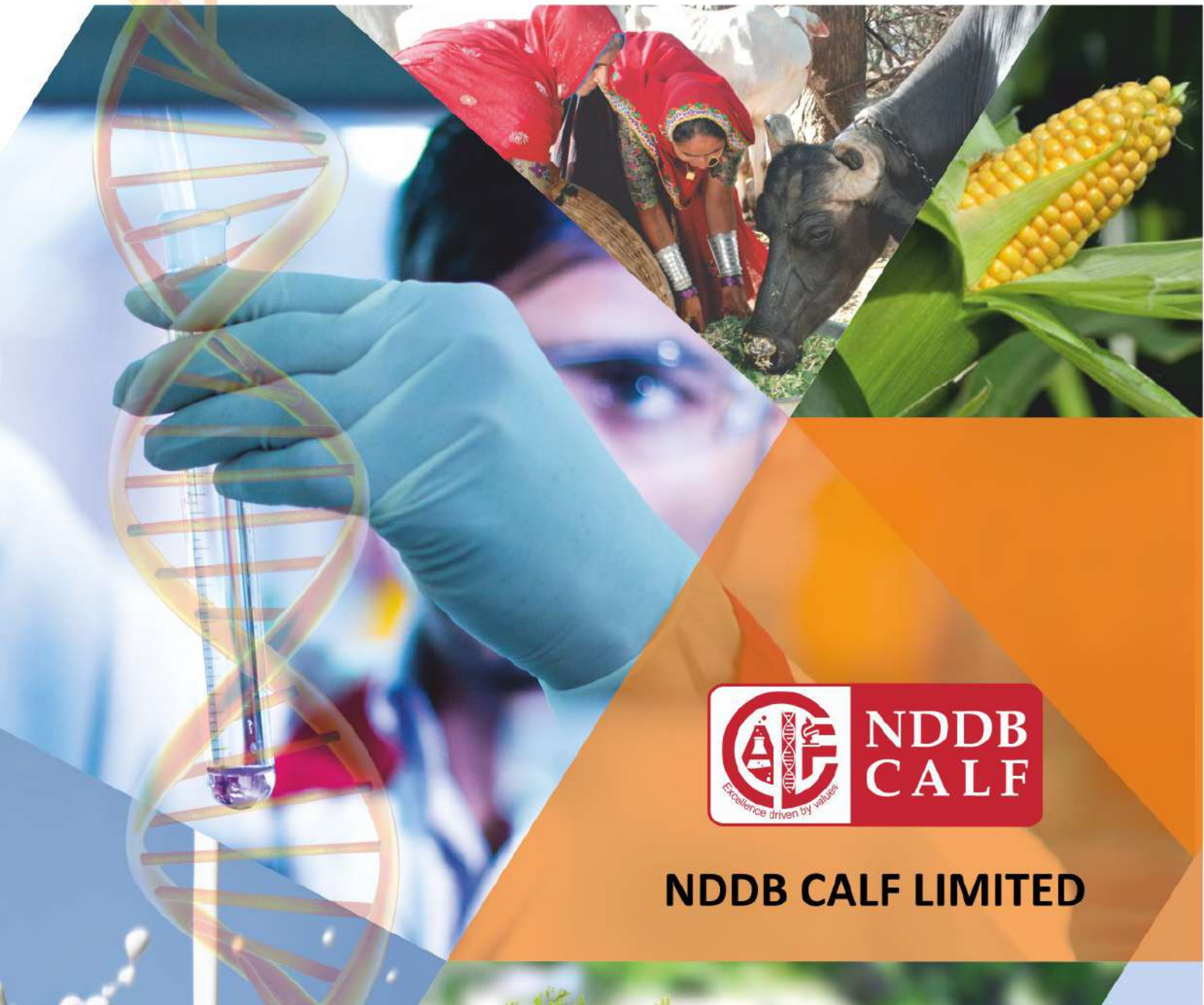


PROFICIENT . ACCURATE . RELIABLE



NDDB CALF LIMITED

Analytical Testing Services for
Dairy, Food, Animal Feed and Genetics at Affordable Cost





With state of the art equipment and qualified technical staff, NDDB CALF Ltd. offers a range of reliable and accurate analytical testing services in the field of dairy products, food, fruit and vegetables, animal feed and genetics at an affordable cost. We follow a quality management system based on ISO 17025 to ensure operational integrity and confidentiality.

Major Areas of Service

Dairy and Food

Analysis of dairy and food products for compositional analysis, fat soluble & B-complex vitamins, fatty acids, cholesterol, sugar profile and minerals of nutritional importance.

Feed and its Ingredients

Analysis of cattle feed and its ingredients for proximate analysis, aflatoxin B₁, mineral elements, amino acids and vitamins. Analysis of mineral mixture and mineral salts for various mineral elements and heavy metals.

Honey & Authenticity

Analysis of Honey as per latest Food Safety and Standards Authority of India (FSSAI) regulations, with inclusion of authenticity analysis, various physico-chemical tests, antibiotic residues and heavy metals analysis.

Food and Feed Safety Parameters

Analysis of various toxicants and contaminants pesticide residues, antibiotic drug residues, heavy metals, pathogens, adulterants and aflatoxin M₁, B₁, B₂, G₁ and G₂, PAHs Dioxins & PCBs and other emerging contaminants.

Animal Genetics and Disease testing

Testing of blood and semen samples for Parentage verification, karyotyping, genetic disorders and diseases in cattle and buffaloes.

Proficiency Testing (PT) Provider as per ISO 17043

We provide PT services in animal feed, milk & dairy products, cereals & cereal products, honey, water, fats & oils, fruits & vegetables and salt.

Organic Products

Analysis of food and agricultural products for organic certification.

Accreditation and Recognition

- Accredited as per the ISO/IEC 17025 & ISO 17043 (PTP) by the National Accreditation Board for Testing and Calibration Laboratories (NABL) for chemical and biological testing covering microbiological & genetics analysis.
- Recognized as a referral laboratory by Food Safety and Standards Authority of India (FSSAI) for milk and milk products.
- Recognised by Bureau of Indian Standards for milk products, cattle feed and mineral mixture.
- Recognised by APEDA for testing of agricultural products.



Food and Feed Safety

CALF has competent & qualified technical manpower and is well equipped to handle various chemical contaminants and residues, mycotoxins as per the requirements of Bureau of Indian Standard (BIS), Food Safety and Standards Authority of India (FSSAI) and Export Inspection Council of India (EIC).

a Product

Milk and milk products, vegetables & fruits, fats and oils, processed foods, cereal and cereal products, nuts & nut products, sugars, food ingredients, bakery products, water, chocolate & confectionary, honey, spices & herbs, packaging materials, animal feed and feed ingredients, mineral mixture, feed supplements, fortified rice and premix.

b Speciality

Ability to address existing and upcoming food and feed safety concerns.

c Scope of Testing

Pesticides, antibiotics, veterinary drug residues, PCBs & dioxins, polyaromatic hydrocarbons (PAHs), mycotoxins like Aflatoxin M1, B1, B2, G1 & G2, DON, T2, ochratoxins, adulterants, amino acids, specific migration, overall migration, microbial pathogens, melamine, emerging chemical contaminants and adulterant microbial pathogens.

d Infrastructure

LCMS/MS, GCMS/MS, ICP-MS, HPLC with cobra cell, UHPLC, GCs, LC, WVTR/OTR, FTIR, RT-PCR, UV visible spectrophotometer, preparative HPLC, Micro-concentrator, microwave digestion system, dioxin sample preparation unit. Bio-safety cabinet, laminar airflow bench, incubators.





Dairy and Food

CALF is well-equipped in terms of infrastructure to meet the requirements of dairy and food manufacturers and comply with quality parameters that adhere to national and international regulations.

a Products

Milk and milk products, fruits & vegetables, fats & oils, processed foods, cereal & cereal by-products, nuts and nut products, sugars, food ingredients, bakery products, saffron, salt, water etc.

b Speciality

Complete testing of various milk products as per BIS & FSSAI requirements and covered under the scope of accreditation and recognition by NABL and BIS.

c Scope of Testing

Compositional analysis, Vitamins A, D, E and B complex, Fatty acid profiles, sugar profile, minerals of nutritional importance, antioxidants, adulterants, microbial indicators and pathogens (contamination).

d Infrastructure

GC, HPLC, HPTLC, ICP-OES, ICP-MS, LCMS/MS, GCMS/MS, microwave based digestion system, UV- visible spectrophotometer, solubility mixer, scorched particle analyser, microscope





Animal Feed

CALF is well placed to meet the challenging requirements of Animals Feed industry and serve the feed manufacturers, mineral & mineral salt manufacturers, support research and development activities of government and further NDDB's initiative for enhancing milk production of the country.

a Products

Compounded feeds, feed ingredients, fodder mineral mixture, calcite powder, chelated mineral mixture, DCP, mineral salts, vitamin, premixes, non-conventional feed ingredients, medicated feeds, Trace mineral mixture, feed supplement, chelated mineral salt.

b Speciality

Testing of Cattle feed, mineral mixture and DCP as per the BIS requirement and cover all parameter under scope of accreditation and recognition by NABL and BIS.

c Scope of Testing

Proximate analysis, mineral elements, amino acids and vitamins A, D and E and aflatoxin, pesticide. Analysis of mineral mixture and mineral salts for various mineral elements and heavy metals, fluorine, iodine, moisture, total ash, acid insoluble ash, permissibility, presence of organic matter.

d Infrastructure

Automatic protein analyser, fiber and fat analysers, ICP-OES, ICP-MS, muffle furnaces, microwave digestion systems, FTIR, HPLCs, GCs, LCMS/MS and GCMS/MS.





Animal Genetics and Disease testing

The productivity of cattle and buffaloes can be increased by improving their genetic potential in a scientific manner. This can be achieved through selection of high genetic merit bulls through genetic improvement programmes such as Progeny Testing, Pedigree Selection and through production of disease-free high quality semen doses.

a Scope of Testing

CALF provides genetic testing services in cattle and buffalo for the following three parameters using blood and semen samples:

- Parentage Verification in bovines
- Karyotyping to detect chromosomal abnormalities
- Genetic disorder testing for four conditions namely:
 1. Bovine Leukocyte Adhesion Deficiency (BLAD)
 2. Citrullinaemia
 3. Deficiency of Uridine Monophosphate synthase (DUMPS)
 4. Factor XI Deficiency syndrome
- Breed purity & Genomic Breeding Value estimation
- Other tests – A1/A2, milk authenticity, GMO testing.
- Brucella, IBR, BVD, JD, BGC, Trichomonosis

b Speciality

Unique facility in the country offering microsatellite based DNA fingerprinting services for parentage verification in cattle and buffalo

c Infrastructure

Genetic Analyser, Automated DNA extraction unit, Spectrophotometer, PCR machines and Gel documentation system, Digital PCR etc.





Quality Assurance

CALF continually assesses its analytical competence by participating in the Proficiency Test (PT) programs conducted at national and international levels.


CALF follows a robust quality control program to verify the accuracy of analytical methodologies by including in-house quality checks at various steps of analysis.



For more details please contact

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