

1. Food Testing and Analysis:

Physical, chemical, and microbiological testing and analysis ensure the quality, safety, nutritional value, and standardization of food products.

• **Fresh and Dried Fruits:**

Testing of heavy metals, aflatoxins, and pesticide residues.

• **Cereals and Pulses:**

Evaluation of chemical composition, purity, and storage capability.

• **Fruit Concentrates:**

Assessment of composition, color, aroma, and nutritional properties.

• **Oils and Fats:**

Evaluation of chemical composition, nutritional value, and consumption safety.

• **Confectionery Products:**

Evaluation of chemical composition, nutritional value, and consumption safety.

• **Milk and Dairy Products:**

Testing for foreign fats, gelatin, hydrogen peroxide, sodium chloride, and neutralizing substances.

• **Tea and Coffee:**

Quality, purity, flavor, moisture, caffeine, and contaminant analysis.

Saffron Parameters:

- Identification and Authentication
- Quantification of Safranal, Picrocrocine, and Crocin
- Total Ash
- Water-Soluble Ash
- Acid-Insoluble Ash
- Extraneous Matter
- Moisture Content

White Sugar Parameters:

- Polarization
- Conductivity Ash
- ICUMSA Color
- Reducing Sugars
- SO₂ Content
- Heavy Metals
- Moisture Content
- Microbiological Examination

Salt Parameters:

- Moisture Content
- Chloride Content
- Sulphate
- Alkalinity
- Iodine Content
- Heavy Metals
- Trace Elements

Honey and Wax Parameters:

- Moisture Content
- Specific Gravity
- Water-Insoluble Matter
- Melissopalynological Analysis
- Total Acidity

Fortified Biscuits Parameters:

- Moisture
- Crude Protein
- Crude Fat
- Peroxide Value
- Crude Fiber
- Vitamin A
- Iron
- Organoleptic Evaluation

Microbiological Parameters:

- Ready-to-Use Therapeutic Food (RUTF)
- Parameters:
 - Aflatoxin B1
 - Total Aflatoxins
 - Crude Protein
 - Fat Content
 - Heavy Metals
 - Vitamin C Determination



2. Beverage Testing and Analysis:

Testing and analytical evaluation of beverages ensures quality, taste, chemical composition, purity, safety, and nutritional value.

3. Pharmaceutical and Veterinary Medicine Testing and Analysis:

Agricultural Pesticides:

Testing and analysis of active ingredients and composition.

Veterinary Medicines:

Evaluation of chemical composition and active substances to ensure safety and effectiveness.

4. Chemical and Organic Fertilizer Testing and Analysis:

Our specialists evaluate the composition, elemental content, and purity using modern equipment and provide guidance on the proper use of fertilizers according to soil and crop requirements.

5. Microbiological Testing and Analysis:

Our microbiologists conduct:

- Total Plate Count (TPC)
- Yeast and Mold Count
- E. coli and Coliform Count
- Salmonella
- Alicyclobacillus spp. Testing

We welcome all clients and stakeholders to benefit from our testing and analytical services. With our modern and standardized laboratory facilities, we are committed to delivering accurate, reliable, and timely results in accordance with internationally recognized standards and methodologies.



Kanda Wazirzai Global Lab. Services

Trusted Quality, Proven Results



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Advancing Quality Through Standardization

Kanda Wazirzai Global Lab Services (KWGLS) provides a wide range of essential laboratory testing services across the country for agricultural chemicals, fertilizers, food products, beverages, dairy products, export and import commodities, and soil and water testing and analysis. The laboratory supports traders, government institutions, and especially farmers across the country in utilizing modern technologies and internationally recognized agricultural inputs in their farms and orchards. The laboratory facilitates the implementation of advanced and modern standards related to the safety and quality of these materials.

The laboratory is pursuing accreditation from national and international accreditation bodies, enabling it to issue internationally recognized test reports and certificates.

Why is Testing Important?

Because it:

- Ensures quality and safety.
- Aligns products with international norms and standards.
- Provides products with required health and quality certification.
- Facilitates and accelerates domestic production, export, and import processes.
Helps build consumer confidence in products.
- Provides reliable and internationally recognized test reports and conformity assessments.
- Supports studies and research related to product shelf life.
- Reduces the risk of shipment rejection during customs clearance.
- Assists in determining the type and need for chemical and organic fertilizers in the agricultural sector.
- Prevents unnecessary use of highly concentrated chemicals.
- Ensures water quality.

In our laboratory, you can conduct complete testing and analysis of:

- Chemical and organic fertilizers.
- Plant protection chemicals including pesticides, insecticides, and fungicides.
- Human and veterinary pharmaceutical products.
- Fresh and dried fruits.
- Cereals and pulses.
- Saffron, Shilajit, sugar, salt, honey, beeswax, fortified biscuits, Ready-to-Use Therapeutic Food (RUTF) Parameters, coffee, tea, beverages, dairy products, edible oils and fats, canned foods, and other export/import commodities.
- Soil and water.
- Tissue culture laboratory services and more.
- Microbiological analysis.

Why Choose Kanda Wazirzai Global Lab Services (KWGLS)?

Because we have skilled, experienced specialists and a modern laboratory equipped with advanced technology. We are a trusted provider of comprehensive laboratory testing solutions. Our services support Afghanistan's agricultural, food, and trade sectors, contributing significantly to economic development.

Samples are accepted during official business hours.

Kanda Wazirzai Global Lab Services (KWGLS)

Trusted Quality, Proven Results

Summary of Our Analytical Capabilities and Testing Services:

Submit your samples for comprehensive testing and analysis. Our laboratory utilizes internationally recognized standards and validated methodologies to ensure accurate, reliable, and timely results.