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fieldfusionlab@gmail.com / Support@tpkcorporation.in 

Khasra No-239, 2432, Village Balian, Pin- 148001, Sangrur Punjab 

Fertilizer & Pesticide Testing Laboratory

About Us

Field Fusion Laboratory (FFL) is a state-of-the-art analytical facility specializing in high-precision testing of fertilizers, pesticides, soil, and agricultural inputs. Our mission is to ensure quality, safety, and compliance with national and international agricultural standards.

We support distributors, dealers, farmers, manufacturers, and regulatory bodies by delivering accurate, reliable, and timely testing services.

Fertilizer Testing

We analyze organic, inorganic, and bio-fertilizers for:

Nutrient composition (N, P, K)

Secondary nutrients (S, Ca, Mg)

Micronutrients (Zn, Fe, Mn, Cu, B, Mo)

pH & EC (Electrical Conductivity)

Moisture content

Heavy metal analysis

Granule size & uniformity


Organic matter content


GSTIN- 03AALCT4415A1ZV
CIN-U71200PB2024PTC063055


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Pesticides • Insecticides • Fungicides Testing

Field Fusion Laboratory is a specialized analytical facility providing precise, accredited testing for **pesticides, insecticides, fungicides, herbicides, and agrochemical residues**.

Using advanced chromatographic and mass-spectrometric technologies, we help ensure the safety of food, water, soil, and agricultural products.

Our mission is to support agriculture, food safety, and environmental protection through **accurate results, rapid turnaround, and regulatory-compliant analysis**.

Pesticide Residue Testing

Detection and quantification of **500+ pesticide compounds** in:

Insecticide Analysis

Comprehensive screening for:

- Organophosphates
- Synthetic pyrethroids
- Carbamates
- Neonicotinoids
- Organochlorines

Applications:

- Crop monitoring
- Export compliance
- Farm-level risk evaluation
- Systemic & contact fungicides

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Our laboratory performs:

Residue analysis (MRL testing)
Purity testing of technical-grade pesticides
Formulation analysis (EC, SC, WP, SL, etc.)
Shelf-life & stability testing
Toxicity evaluation (optional categories)

Fungicide Analysis:

Specialized testing for:
Triazoles
Strobilurins
Dithiocarbamates
Chlorothalonil & mancozeb

Herbicide & Weedicide Testing

Targeted quantification of major compounds:
Glyphosate
Paraquat
Diquat
Atrazine
2,4-D
Pendimethalin
Butachlor

Reports include:

MRL compliance (Codex, EU, FSSAI, EPA)
Toxicological interpretation
Pass/Fail status
C. Soil Testing
NPK levels
Soil pH & EC
Organic carbon
Micronutrients & heavy metals
Gypsum requirement / lime requirement
D. Water Testing (Irrigation & Drinking)
pH, TDS, EC
Hardness & alkalinity
Minerals & micronutrients
Contaminants & pollutants

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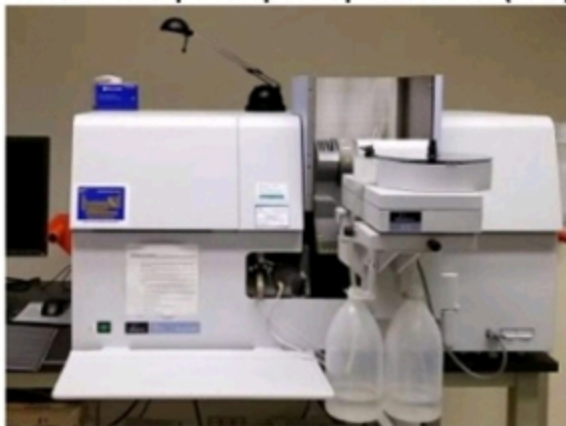
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Instruments & Technology

Our lab is equipped with advanced equipment for precision testing:

Atomic Absorption Spectrophotometer (AAS)



UV-Visible Spectrophotometer

pH & EC analyzers

Moisture analyzers

Precision weighing balances Residue Testing Accessories

Autosamplers

Syringe filters (0.22 μ m & 0.45 μ m)

SPE cartridges (C18, PSA, GCB)

Column oven

Derivatization kits

MICROBIOLOGICAL EQUIPMENT

Incubators

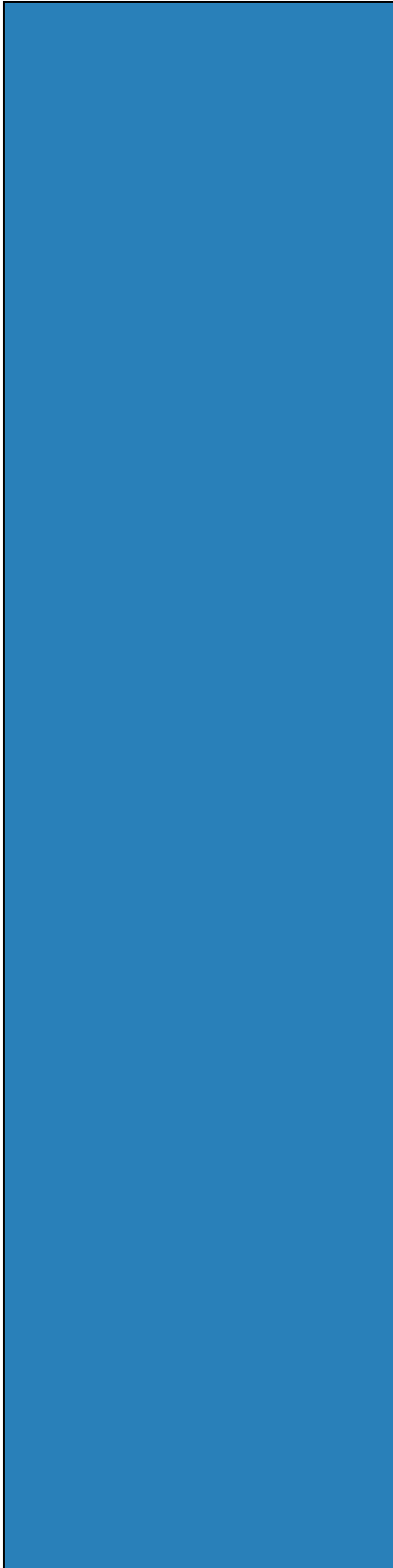
Colony counter

Petri plates & media preparation system

Autoclave

Biological safety cabinet

Microscope



My Product Catalog

Holiday Edition

SAMPLE PREPARATION EQUIPMENT

2.1 Extraction & Cleanup
QuEChERS extraction kits
Ultra-sonicator
Centrifuge (high-speed refrigerated)
Solid Phase Extraction (SPE) manifold
Vacuum evaporator / Nitrogen evaporator
Rotary evaporator
Analytical weighing balance (0.1 mg accuracy)
pH meter
Conductivity meter
Magnetic stirrers with hot plates

GENERAL LAB EQUIPMENT

UV-Visible spectrophotometer
FTIR spectrometer
BOD incubator
Flame photometer
Water purification system (RO + DI)
Micro pipettes (0.1 μ L – 10 mL)
Refrigerators & freezers (-20°C & -80°C)
Laboratory oven
Muffle furnace
Hot air oven
Autoclave
Fume hood / Chemical safety hood
Laminar air flow cabinet
Dehumidifier


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Sample Collection Guidelines

Fertilizer Samples

Minimum 200g required

Use airtight, contamination-free container

Pesticides • Insecticides • Fungicides Samples

250ml liquid / 200g solid

Store away from heat & sunlight

Collect from 4–5 spots in the field

Mix thoroughly & submit 500g

Water Samples

Use clean bottle

Turnaround Time

Basic tests: 3–5 days

Advanced tests: 7–12 days

Bulk commercial testing: Custom timeline

Why Choose Field Fusion Laboratory?

Accurate & validated testing methods

Fast reporting & digital certificates

Skilled chemists & agricultural experts

Compliance with national/international standards

Customer support for interpretation of results

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