

## Pesticide Residue Testing



Pesticides are any substance or mixture of substances designed to prevent, destroy or control any unwanted species of plants, animals or insect pests causing harm during or otherwise interfering with the production, processing, storage and transport of agricultural commodities.

The different types of pesticides are insecticides, herbicides, fungicides, antimicrobials, miticides, rodenticides and repellents. Pesticides are used throughout food production and at packaging facilities to prevent contamination and also to protect food against pests during transportation.

The trace amounts of pesticides that remain in or on fruits, vegetables, grains and other foods are called “residues.” Pesticide residue levels are highly regulated, and while some residues may remain after harvesting, they naturally decline as the pesticide compound breaks down overtime. Residues also decrease or are concentrated when products are washed, processed, and packaged.

TUV India, with our state-of-the-art laboratories at Pune and Bengaluru locations, conducts extensive testing covering over 400+ pesticide residue molecules across various commodities. Our approach utilizes highly efficient LCMS/MS and GCMS/MS techniques, aligning with internationally recognized methods such as AOAC, EN, and others, ensuring accurate quantification of pesticide residues.



Our testing protocols encompass both Single-residue monitoring and Multi-residue monitoring, boasting some of the most sought-after Limit of Quantifications (LOQ) in the pesticide residue testing market. These LOQs are crucial in determining the minimum concentration of residues detectable in food products.

Pesticide residues are subject to Maximum Residue Levels (MRLs) mandated by regulatory bodies in numerous countries. TUV India aids food business operators and exporters in meeting these stringent requirements, ensuring compliance with the guidelines of key export destinations like EU countries, USA, Australia, New Zealand, Japan, GCC countries, Indonesia, and others.

Our services extend to cover specific regulatory requirements, including FSSAI guidelines encompassing 213 pesticides and 20 banned pesticides, APEDA standards for grapes, Organic/Jaivik Bharat MRLs, EIC specifications, Tea Board PPC guidelines, and BIS water testing norms for pesticide residues.

Choosing TUV India for pesticide residue testing guarantees accurate and reliable results adhering to global standards. Our comprehensive testing ensures that your products meet the stringent criteria set by national & international regulations, enabling smooth export operations while upholding consumer safety and confidence.



## About Us:

TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petro-chemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

### TUV India Private Limited

#### Food and Packaging Testing Services

##### Pune Laboratory

TUV India House,  
Survey No - 42, 3/1 & 3/2,  
Sus, Pune - 411021  
T 020-67900000/1

##### Bengaluru Laboratory

No.8, VK Commerce, 2nd Floor, III  
Main Rd, Opp. KSSIDC Tech Park,  
Rajajinagar Ind. Estate, Bengaluru -560044  
T 080-40823046

##### Registered & Head Office

801, Raheja Plaza-I, LBS Marg, Ghatkopar (W), Mumbai - 400086  
T +91 22 664 77000, T 1800 209 0902  
E [infoindia@tuv-nord.com](mailto:infoindia@tuv-nord.com)  
W [www.tuv-nord.com/in](http://www.tuv-nord.com/in)

Over 1400 competent and experienced TUV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

#### Advanced Chemical & Material Testing Laboratory

##### Noida Laboratory

72, Block A, Sector 64, Noida,  
Uttar Pradesh - 201305  
T +91 120-4634210

