

# Mycotoxins Testing



Mycotoxins are secondary metabolites of Mycotoxigenic fungi that are poisonous to humans and other animals if consumed in sufficient quantities. When ingested by animals or humans, Mycotoxins cause a toxic response known as Mycotoxicosis.

At TUV India Food Testing laboratories, we use latest analytical techniques such as HPLC and LCMS/MS using internationally validated methods to analyze Mycotoxins in various food matrices.



Mycotoxins are generally produced during the growth or storage of food commodities (e.g. cereal grains, nuts, corn, coffee, wine, beer and grape juice, sorghum, rice, dried beans, apples, pulses, cacao products, spices, and some animal-derived products). Enhanced awareness about Mycotoxins-caused illnesses is reflected by the growing number of countries that have adopted regulations which define acceptable limits/levels for presence of these Mycotoxins in commodities.

Different Mycotoxins can disrupt critical hormonal systems, damage organs, compromise the immune system, or cause cancer. Mycotoxin contamination can be managed by disseminating knowledge about Mycotoxins, predicting and preventing contamination, detecting Mycotoxins in grains, effective use of contaminated grain, and breeding crops for fungal resistance.

Mycotoxins control are widely regulated by most countries. At TUV India we cover testing as per the EC 1881/2006, FSS (Contaminants, toxins and residues) regulations, GSO 841/1997 (Aflatoxin residues), and other important regulations for same.

Sr. No	Mycotoxin	Food matrix commonly found in	TUV LOQ
1	Aflatoxins B1, B2, G1 & G2	Cereals, Pulses, Nuts (Peanut), Oilseeds, Spices	1 µg/kg
2	Aflatoxin M1	Milk	0.010 µg/kg
3	T2 Toxin	Wheat, Maize, Barley, Oats	10 µg/kg
4	Patulin	Apple	50 µg/kg
5	Zearalenone	Wheat, Barley, Maize	10 µg/kg
6	Ochratoxin A	Wheat, Barley, Rye	1 µg/kg
7	Deoxynivalenol	Wheat	10 µg/kg
8	Fumonisin B1 & B2	Corn	10 µg/kg

### Mycotoxins analyzed at TUV India



### About Us:

With over 14,000 employees, TÜV NORD GROUP is one of the largest technical service providers, offering its advisory, service and inspection expertise in over 100 countries throughout the world.

Areas of activity include Industrial Services, Certification, Testing, Product Certification, Mobility, Training, and IT. TÜV NORD GROUP occupies a unique position in the sector based on its work in the fields of natural resources and aerospace and is firmly committed to its guiding principle and watchword: **“Expertise for your Success”**.

TUV India Pvt. Ltd. was established in 1989 as part of the German RWTÜV group's Indian operations, now the TÜV NORD GROUP, as one of the first Certification Bodies to start operations in India; since then, it has been closely associated with the quality revolution in India. With over 1100 employees in more than 25 locations across India, TUV India is never far from its customers.

TUV India provides diverse services in Management Systems Certification, Industrial Services, Inspection Services, Infrastructure & Buildings, Roads & Highways, Renewable Energy, Railways, Petroleum, Chemicals & Gas Services, Food Testing and Certification, Training, Automotive Services, Product Testing (Electronics & Electricals) and Certification, Project Management, Social Accountability and Sustainability Services.

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