



phy | t r a c e[®]
Tracing of Contaminants

PhytoLab – Our Services

PhytoLab is an independent, ISO 17025-accredited and GMP-certified consultancy laboratory for herbal medicinal products, food, animal feed, and cosmetics. Our services include the analysis, development, quality control, and regulatory approval of herbal products at all stages of processing. PhytoLab is your competent partner in the field of analysis of residues and contaminants in plants, herbal products (essential oils, tinctures, extracts), pharmaceutical raw materials, and finished herbal medicinal products. Personal and competent advice tailored to your needs form a trusting partnership. Professional sample preparation, valid and reliable analysis, and document management are our trademarks. As a company in the nature network, we are committed to the highest standards of quality, efficacy and safety of herbal products with our experienced team and state-of-the-art equipment.

Pesticides – scope of analysis

Pesticides are applied in agricultural production of food plants as a single or mixture of several active ingredients to protect crops from pest infestation or disease. **Insecticides, acaricides, herbicides, and fungicides** are the best-known representatives of plant protection products, as well as **molluscicides, plant growth regulators, and repellents**. In the further production process of the plant products or during the supply chain, **stock protection agents** may also be applied. While only a few pesticides are authorised for application in the cultivation of herbs, they may be contaminated by wind drift from pesticides used in the nearby cultivation of other agricultural commodities such as cereals, corn, wine grapes, fruits, and vegetables. Therefore, **maximum residue levels** for the products have been **stipulated in pharmacopoeias, food, and feed laws**.

PhytoLab is **your partner** for conducting pesticide residue analysis with modern multi-, group or individual methods. With over **30 years of experience** in the phytopharmaceutical, food, animal feed, and cosmetic sectors, we assist you in establishing **risk-based test plans** for your products. Our experts recommend product-specific testing scopes, taking into account geographical origin and plant parts used.

If you are looking for a **competent, fair, and independent partner**, and expect **reliable analytical results** carried out by motivated staff on state-of-the-art laboratory instrumentation, then you should choose PhytoLab. We offer you the best possible support for your risk management. **Everything for successful pesticide and contaminants analysis - today and in the future!**

Pesticide residues in multi-methods

Insecticides, fungicides, herbicides

Nitrogen-containing pesticides

Organochlorine pesticides

Organophosphorus pesticides

Peel treatment agents

Pyrethroids

Pesticide residues in group methods

Chlormequat, Mepiquat

Ethylene and Propylene thiourea (ETU, PTU)

Halogenated phenols

Matrine, Oxymatrine

Paraquat, Diquat

Phenoxyalkane carboxylic acids (acidic herbicides)

Phenylureas

Pesticide residues in individual methods

Dithiocarbamates

Glyphosate

Nicotine

Trimesium (trimethylsulfonium cation)

Fumigants

Ethylene oxide

Methyl bromide

Phosphine

Overview of PhytoLab's pesticide testing spectrum. Further customized method development and analysis is available upon request.



Regulatory requirements

As an established partner of the pharmaceutical industry and with our expertise in the field of regulatory approval relevant analysis, the associated method validation and documentation, we provide **GMP-compliant** analysis data to our customers.

Legal requirements and **consumer expectations** demand maximum reliability and experience in the analysis of residues and contaminants in herbal products. PhytoLab offers you a comprehensive package of services for all questions relating to the analysis and evaluation of pesticides in accordance with the **European Pharmacopoeia (Ph. Eur. 2.8.13)**, the **United States Pharmacopoeia (Chapter 561)**, or the **European Regulation (EC) No. 396/2005**.

The criteria for the **validation of analytical methods** and the performance criteria (e.g. calibration for quantification, preparation and use of standards, stock solutions and calibration solutions using certified standards) are based on Ph.Eur. 2.8.13. "Qualitative and quantitative analysis of pesticide residues" including the SANTE document 11312/2021 (current version) "Guidance document on analytical quality control and validation procedures for pesticide residue analysis in food and feed".

Industry sectors and analysed products

For **over 30 years**, PhytoLab has been a reliable and renowned **partner for companies in the pharmaceutical, food, feed, and cosmetics industries**, helping to create and secure the success of many. The diversity and complexity of dried herbal matrices **demand particular expertise, care, and experience**. As part of the nature network, we offer a unique wealth of experience and expert support in assessing findings. From professional sample preparation to analysis results, we stand by your side with a trusting partnership and offer competent, personalized, and sustainable advice in analyzing raw materials and finished products. **Our experience ensures your security!**

Animal feed

Animal feed

Pet food

Cosmetics

Essential oils, flavors, fragrances

Herbal extracts

Foodstuffs

Additives, excipients

Baby food

Cereal products, baking agents, cereals

Coffee

Dried fruit

Extracts for food and beverages

Fats and fatty oils

Flavors, essential oils

Food supplements

Herbal and fruit teas

Herbs and spices

Oleoresins

Tea

Herbal medicinal products

Homeopathic remedies

Medicinal tea

Narcotic drugs

Pharmaceutical extracts

Phytopharmaceuticals

Quality and accreditations

The quality of our work is confirmed by **accreditation** in accordance with **DIN EN ISO/IEC 17025** and **GMP certification**. Regular participation in interlaboratory comparisons or proficiency tests from various recognized providers is also an essential part of our quality assurance. Our commitment is also reflected in our collaborations and our involvement in various industry associations and numerous committees, where we regularly exchange views on complex legal issues.

Do you require **holistic consultation** on your products and raw materials for your **risk management**? Are the above-mentioned products, pesticides, or other contaminants your topic and would you like **a personal exchange**?

Please contact us directly!

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🌐 www.phytolab.com

