

## QUECHERS

### Extended pesticide package for fresh fruits and vegetables

Pesticides not permitted in Germany are subject to a general limit value of 10 ppb – this regulation is also widely applied in other countries. To control the conformity of fruits and vegetables in respect to maximum residue limit regulations, the official, modular multi-residue method DFG S 19 usually is applied.

#### Our conventional test packages

Our package “PAP1” and the use of Ion-Trap-MS-Technique, identifies more than 250 pesticides. This technique detects the well known pesticides as well as other pesticides recently publicised in the market.

The optimal supplement to PAP1 is our “LC 1” package, which covers those pesticides that can be identified by the multi-residue method DFG S 19 in combination with the LC-MS/MS technique. The LC-MS/MS technique is virtually indispensable in the certification of conformity of numerous types of fruits and vegetables which are subject to official requirements.

These conventional packages in combination cover nearly 300 relevant compounds, ensuring a high product safety level. Yet, such a complex analysis is time consuming and also associated with corresponding costs.

Therefore Eurofins now offers an analytical service allowing a rapid

risk assessment of perishable goods.



## QUECHERS

QUECHERS stands for „**Q**uick, **E**asy, **C**heap, **E**ffective, **R**ugged and **S**afe“. The method was introduced in 2004 – originally based upon GC and LC techniques.

QUECHERS offers the advantage of providing results within 48 to 72 hours. Due to consequent method development, the number of detected molecules could be increased from 120 to 150 pesticides.

As a result, determination of compounds like Pyrethrins, Cycloxydim, Trifluriduron and Pencycuron is now possible applying the QUECHERS multi residue method.

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Due to the simplicity of the method, we are further able to offer QUECHERS at a very attractive price.

QUECHERS is tailored to fruits, vegetables and cereals. If a corresponding number of samples is provided, we can offer a specific adaptation of the spectrum of compounds to meet your individual needs.

## Eurofins' qualities

Eurofins is committed to provide the highest quality services, accurate results in time and, if requested, expert advice by highly qualified staff.

- International presence at various markets and corresponding boards
- Providing an unparalleled range of testing and support services by implementation

of laboratories in 18 countries

- Continuous efficiency control by internal quality management and regular participation on external proficiency testing and interlaboratory tests

PAP1/ LC 1 (DFG S 19)	QUECHERS
Complex range of analytical compounds, also backdated pollution is detected.	Defined range of current compounds, backdated pollution is not covered.
Method officially approved, accredited	Validated method on its way to official approval Method officially accredited.
Final judgement of accordance with legal requirements based on the analytical results.	Short-term risk assessment for quick judgement of perishable goods, complementary analysis to PAP 1
Turn around time: 5 – 10 working days	Turn around time: 2 – 4 working days
Price: PAP1 single 175 EUR PAP1 + LC 1 235 EUR	Price: 150 EUR
Complex range of analysed compounds (ca. 300 single compounds), however also further residues could be detected that are not mentioned in the official compound lists.	Range of analysed compounds (ca. 150 single compounds) to be categorised as target-components. Only the mentioned compounds are determined. All compounds from group LC 1 are included as well as other molecules that are not analysable with method DFG S 19.
Recommended for long-term monitoring studies with insufficient knowledge of the product's origin as well as for checking the conformity with maximum residue limit regulations (national/EU)	Recommended for the quick and cost-effective risk assessment of the contamination of perishable fresh fruits and vegetables. Powerful analysis in addition to PAP 1 covering in total more than 400 different pesticides.

### Contact:

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