

# Novel Food Solutions



Insects, veggie products, food supplements, algae, SO<sub>2</sub>, sugar substitutes, plant-based drinks ...

STEAM DISTILLATION | KJELDAHL | DUMAS | HYDROLYSIS  
EXTRACTION | DIGESTION

# Novel Food Specialist

The range of novel foods is diverse - from veggie products and food supplements to edible insects. The novel food market is always changing and growing at great speed. Accordingly, particularly flexible analysis systems are in demand. We at C. Gerhardt have developed various solutions for the analysis of novel food. With our analysis systems, you not only receive reliable products, but also professional consultation from our application specialists.

On our website [www.gerhardt.de](http://www.gerhardt.de) you will find detailed information about our analysis systems, also specifically for your industry.

**We are always happy to help - contact us: [info@gerhardt.de](mailto:info@gerhardt.de).**



## HYDROTHERM | SOXTHERM

Hydrolysis and solid-liquid extraction



- + Safe, automated and rapid sample preparation and analysis
- + Sample weight up to 50 ml for liquid and up to 20 g for solid samples
- + Total fat analysis and preparation for fat spectrum analysis
- + Resource-saving

### Applications

- Extraction of:
  - Food supplements
  - Vegan and vegetarian products
  - Insects as food and animal feed
  - Microalgae and algae
  - Sugar substitutes
  - Exotic seeds and fruits
  - and much more...

## N-Realyzer

Automatic N-determination according to Dumas



- + Patent pending autosampler design
- + Intuitive software
- + Rapid and precise reference results
- + Low and predictable operating costs
- + Numerous applications: Liquid, pasty, solid samples

### Applications

- Protein in products with protein supplements (e.g. protein bars)
- Protein in whey powders
- Protein in insects
- Protein in food supplements
- Protein in plant-based drinks
- Nitrogen in vitamins
- and much more...

## KJELDATHERM | VAPODEST

Acid digestion and steam distillation



- + Rapid and automated
- + Glass variety from 100 ml - 1200 ml
- + Soft start for distillation
- + Traceability on various user levels

### Applications

- Protein in products with protein supplements (e.g. protein bars)
- Protein in whey powders
- Protein in food supplements
- Protein in plant-based drinks
- Nitrogen in vitamins
- Essential oils in beverages
- Essential oils in spice blends
- and much more...

## FIBRE THERM

Fibre extraction of crude fibre, ADF and NDF



- + Rapid and automated
- + Parallel analysis of up to 12 samples
- + Optimal extraction and filtration conditions due to FibreBag technology
- + Automated addition of amylase (optional)

### Applications

- Chitin in insect-based food and animal feed
- Spice blends
- and much more...

## VAPODEST 550 | TURBOTHERM TT SO2

Special applications



- + Rapid and automated
- + Automated alternatives to the optimised Monier-Williams method
- + Glass variety
- + Resource-saving

### Applications

- Sulphur dioxide in foods (e.g. algae or dried fruit)
- and much more...



## MEETING HIGH DEMANDS ON ANALYTICS

Strict regulations and requirements from national and international norms and guidelines place high demands on analytics. With analysis systems from C. Gerhardt, you receive the up to date standard and thus meet these demands.



## APPLICATION SERVICE

Our laboratory staff is regularly trained and is always available for specific questions. If desired, we can optimise your applications or create an application specifically for you.

- + On-site service
- + Evaluation of your samples in our application laboratory
- + Applicative Support (Webinars / Trainings / Online-Support)
- + Consultation / Installation and Training
- + Aftersales Service / Customer Service

**We are happy to help: info@gerhardt.de**



## STRONG PARTNER

We are global leaders in the automation of reference analysis. We stand for the development, production and global distribution of highly efficient, precise and reliable analytical systems.

Our specialties are automatic systems for

- + Nitrogen analysis according to Kjeldahl
- + Nitrogen analysis according to Dumas
- + Determination of fat content (hydrolysis and extraction)
- + Analysis of plant fibres (crude fibre, ADF, NDF)



**Have you heard of our webinars?**



C. Gerhardt GmbH & Co. KG  
 Cäsariusstraße 97  
 53639 Königswinter  
 Tel. +49 (0) 2223 / 2999-0  
 info@gerhardt.de  
 www.gerhardt.de

