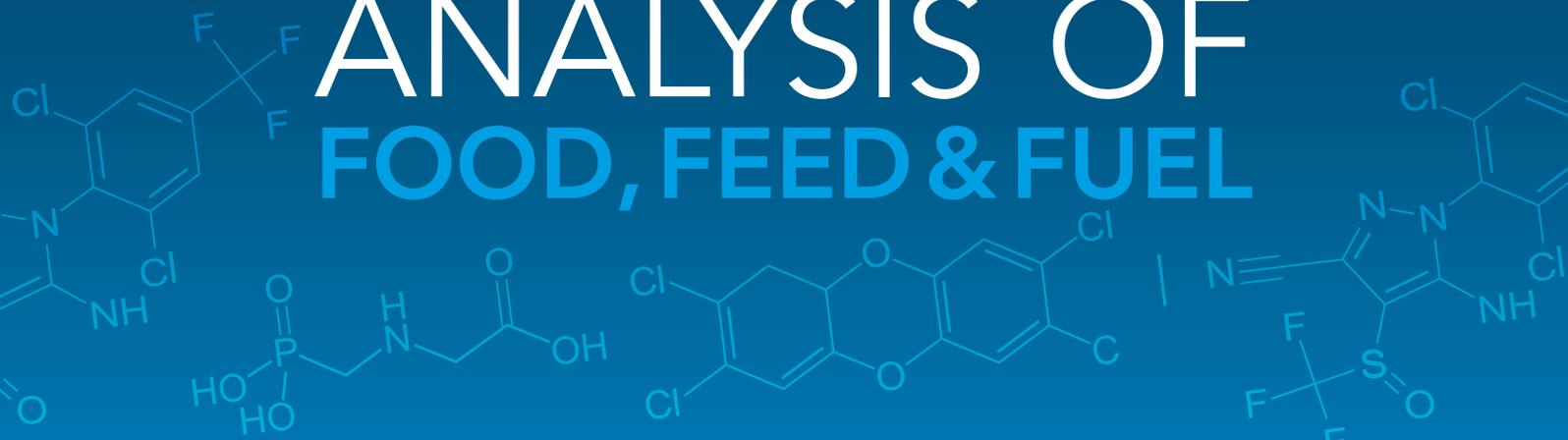
The background features a blue-tinted periodic table of elements. Overlaid on this are several wireframe molecular models of various chemical structures, including what appears to be a protein or a complex organic molecule, rendered in a glowing blue wireframe style with small white dots at the vertices.

**TLR**

INTERNATIONAL LABORATORIES

FAST, COMPREHENSIVE  
**ANALYSIS OF**  
**FOOD, FEED & FUEL**

The bottom of the page features several chemical structures in a light blue color. These include a benzene ring with multiple chlorine and nitrogen substituents, a phosphonic acid derivative, a complex heterocyclic structure with chlorine and oxygen atoms, and a sulfonamide derivative with a trifluoromethyl group.

**'FAST, COMPREHENSIVE  
ANALYSIS OF  
FOOD, FEED & FUEL'**

## **FAST, ACCURATE, USABLE ANALYSES FOR YOUR COMPANY**

Welcome to TLR International Laboratories, an independent lab facility for chemical analysis, microbiological analysis, DNA analysis, PCR, and analysis interpretations. TLR is a modern lab in Rotterdam, The Netherlands where highly trained staff work with state-of-the-art instruments to present the best, most reliable results in ways our clients can use. TLR specialises in analysing foods, feed and ingredients for the feed industry, as well as fuel and biomass products.

When food, feed and fuel products are submitted to us for analysis, quality and safety are the highest priority - for our clients and for us. Reliable analysis results are the least you can expect from your laboratory. TLR is internationally accredited (L059) to perform a wide-ranging array of chemical, microbiological and DNA analyses. We constantly expand our range of services to include innovative, high-quality solutions so we can keep meeting your needs optimally.

Fast turnaround times are guaranteed at TLR. We can achieve these speeds by having our expert staff work with state-of-the-art equipment in a cutting-edge modern environment. All analyses are performed quickly and efficiently from a single location. And our clients have a live feed of results and reports in our real-time web application. All these aspects achieve significant savings in both time and money, improving your bottom line.

Personal contact is very important to us. At TLR, you have a single point of contact: an account manager who has a solid understanding of the process. And a list of analysis results isn't where we stop; we also provide you with an interpretation of what your results mean, tailored to your company and your specific analysis needs.

TLR is a member of the Peterson and Control Union network. This network consists of independently operating service providers that specialise in inspection and certification of food, feed, ingredients for mixed foods, textiles and fuel.

Most of the companies operate under the Peterson and Control Union trade names. This international network allows us to take samples all around the world. These connections also ensure that the consultants at TLR and its fellow companies can be deployed and consulted for advice on quality issues worldwide.

## WORLDWIDE NETWORK

TLR is part of the Peterson and Control Union network. This network consists of independently operating companies that collectively have a presence in over seventy countries worldwide. Each of the affiliated companies has its own specialisation in terms of inspection and certification. Whether you use only one of the services that these companies offer, or a comprehensive range of services, you can rest assured that you will enjoy the benefits of a powerful global partnership.

Peterson and Control Union traces its roots back to agricultural inspection. Nearly 100 years later, the network includes fundamental knowledge of logistical processes, quality management, certification and risk management for many different industries – agriculture, forestry, energy, sustainability, textiles, and many more.

Our worldwide services include support and guidance during certification, as well as administrative checks for certification accuracy and validity. Within our international network, we can also arrange sampling and auditing for you.

We also have all the expertise you need for support during e.g. due diligence, including IMO and USCG approval for your ballast water management systems, and during implementation of the strict rules and regulations imposed by the US Food and Drug Administration (FDA) and the Food Safety Modernization Act. Does your organisation need to ensure constant, cutting-edge awareness of the latest international laws and regulations? We can put together a training programme for your employees which is tailored to your specific needs. We can provide this option at any of your locations worldwide.

*'You benefit from  
the powerful global  
partnership'*





*'Part of the international network of Peterson and Control Union'*

## FROM COAL AND COKE ANALYSIS TO ALL-ROUND ADVISORY LABORATORY

Our organisation has come a very long way since the 1950s. Originally the Technical Laboratory of Rotterdam, dedicated to analysing coal and coke, we spent our first two decades expanding our scope, developing into a versatile, high-tech laboratory specialising in feed, food and fuel. Joining the PCU Group played an important role in that process, giving us more access to the worldwide network of Peterson and Control Union. We have been operating as TLR International Laboratories since 1977.

Quality and food safety have improved steadily over time in the markets for food and animal feed. Keeping pace with that trend, TLR grew to become one of the most progressive laboratories in the Netherlands in the field of feed and food safety and quality. Following from our early days in coal and coke analysis, we also continued specialising in fossil fuels and biofuels, resulting in an extensive range of analysis methods.

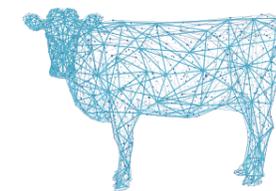
TLR experienced a variety of changes over the years, beyond diversification and growth. In addition to our expansion in various markets and our increasingly international orientation, we have increasingly focused on providing our clients with comprehensive services. In line with that focus, tailor-made analyses, advice and training

by our consultants are now also included in our range of services. In 1992, TLR was one of the first commercial laboratories to achieve STERLAB accreditation – a standard known today as ISO 17025 accreditation (L059). TLR has also been approved by numerous international organisations.

### OUR MARKETS:



FOOD



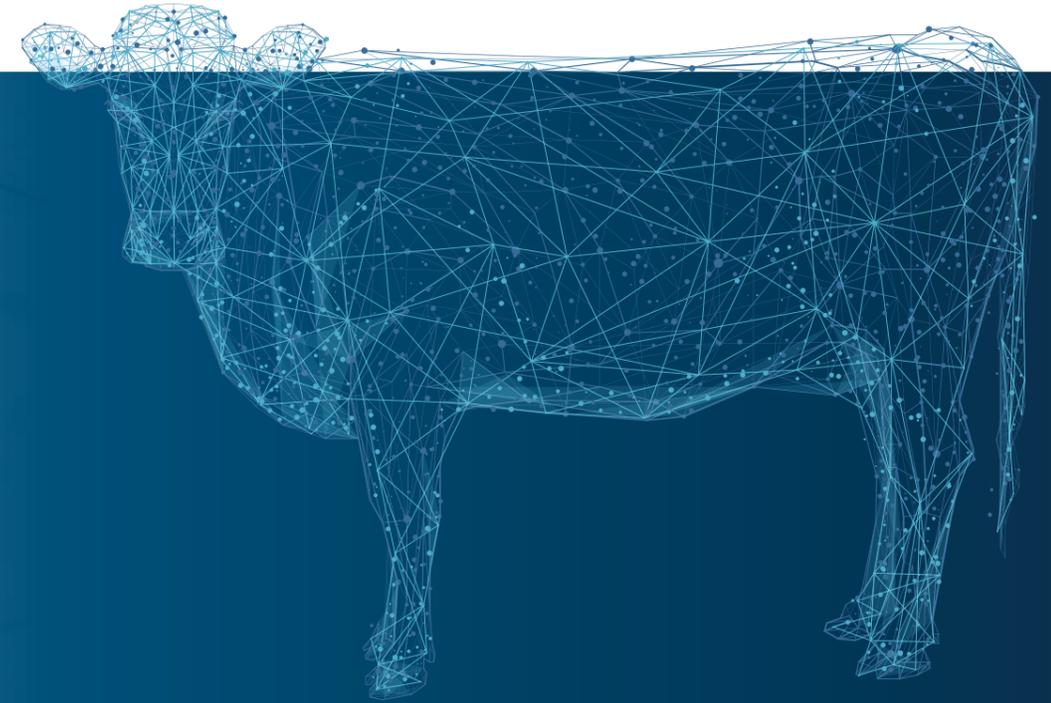
FEED



FUEL



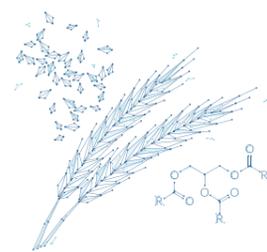
*'Highly trained staff,  
state-of-the-art instruments  
and a modern laboratory'*



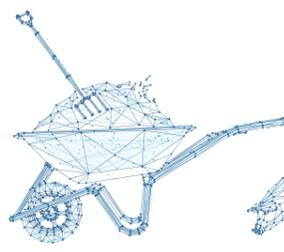
## STANDARD AND COMPLEX ANALYSIS METHODS FOR ANIMAL FEED

8

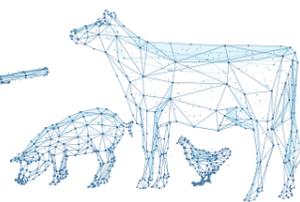
The quality of feed and ingredients for the feed industry is an important priority. First and foremost, you want to produce nutritious, safe feed products that contribute to good health, growth and development of livestock and household pets. These priorities are a matter of public health, particularly for livestock feed. Through the food chain, you will most likely only want to produce high-quality meat.



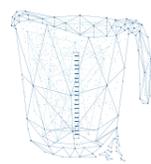
BASIC INGREDIENTS



ROUGHAGES



MIXED FEED



HIGH MOISTURE ANIMAL FEEDS



PET FOOD



TLR offers a wide range of analyses for feed and ingredients for the feed industry. In our modern laboratory, we can quickly and efficiently perform standard analyses to determine nutritional content. We work with complex methods for detecting residues and contaminants like pesticides, dioxins and melamine and perform microbiological

methods such as plate counts, as well as modern PCR techniques for pathogenic bacteria like salmonella, or enteropathogenic E. coli and E. coli O157. Our PCR screening enables us to detect genetically modified variants.

TLR also tests for intended and unintended nutrients or components, foreign substances, damaged grains and toxic seeds. Our portfolio also includes DNA analyses.

Our connections to the Peterson and Control Union networks allow us to take independent samples and conduct research all over the world. Our experienced consultancy department advises clients on quality issues, including in feed products. TLR is GMP+ and QS certified, ISO 17025 accredited (L059) and approved by the FOSFA and GAFTA.

9



*'All analyses in the same facility ensures fast turnaround times'*

## A WIDE RANGE OF FOOD ANALYSIS OPTIONS

10

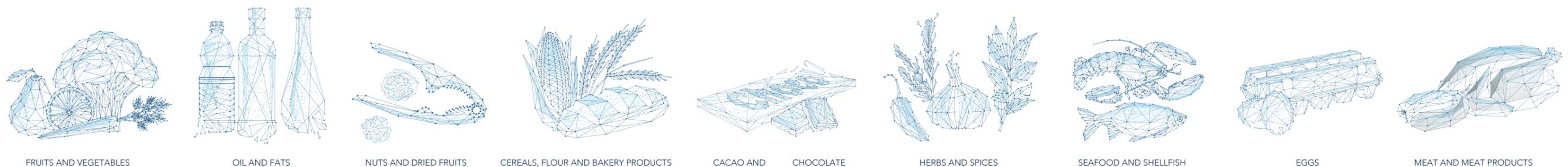
In the food industry, quality and safety are considered public health issues. The government has technologies imposed strict rules on food products. In this stringent regulatory framework, rapid responses, fully reliable analysis results and complete clarity are essential. TLR has the knowledge, expertise and technical capacity to quickly and expertly navigate this vulnerable market.

We can provide basic chemical analysis for determining the exact nutritional content of your food products, as well as more complex methods for detecting residues and contaminants, such as pesticides, dioxins or melamine. TLR also performs classical microbiological analyses, such as plate counts, as well as modern PCR techniques for pathogenic bacteria like salmonella, or enteropathogenic E. coli and E. coli O157. PCR screening is used to detect genetically modified variants and allergens. TLR can test your products and ingredients for foreign contaminants, damaged kernels of grain, or toxic seeds.

In microbiological challenge tests, our specialists research whether your food product, animal feed or ingredient would provide a productive medium for pathogenic bacteria. If this turns out to be the case, we can offer solutions in the form of various combinations of preservation technologies.

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The minimum and maximum shelf life of your products is also a vital factor in food safety. Our lab analyses and statistical evaluations allow us to determine those figures precisely.



FRUITS AND VEGETABLES

OIL AND FATS

NUTS AND DRIED FRUITS

CEREALS, FLOUR AND BAKERY PRODUCTS

CACAO AND CHOCOLATE

HERBS AND SPICES

SEAFOOD AND SHELLFISH

EGGS

MEAT AND MEAT PRODUCTS

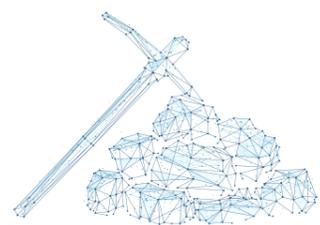


*'Real-time web application provides immediate access to results'*

## SOF FUEL AND BIOMASS PRODUCTS AND BIOMASS PRODUCTS

12

As a reliable company, you aim to produce fuel and biomass products that meet the highest standards of quality. Contaminated fuel does not achieve the same performance as pure fuel, and may even lead to malfunctions or breakdowns at your end customers. As an independent laboratory, TLR is equipped for quick and accurate analysis of fuels and biomass products.



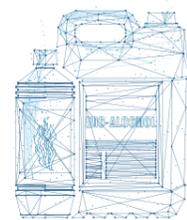
KOLEN EN COKES



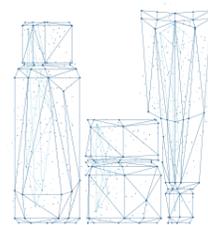
BIOMASSA



VLIEGAS



BIO-ALCOHOL



GLYCERINE



BIODIESEL



BIJPRODUCTEN VAN BIO-ETHANOL EN BIODIESEL

13



TLR can also analyse all sorts of by-products from bioethanol production and biodiesel. We deliver accurate analysis results within five working days. Even faster service is available for biofuels, providing results within one day.

We can also monitor the quality of your fuel through regular sampling. Our sampling service can be provided anywhere in the world through the international network of our affiliates, Peterson and Control Union.

Since the 1970s, TLR has been analysing solid fuels like coal, coke, biomass, biofuel and by-products from biofuel production. TLR has been analysing coke and coal since its earliest days in 1950. We can offer you chemical and physical analyses for solid fuels and biomass. You can also contact us to test the composition, colour or structure of fly ash. We can analyse bio-alcohols and glycerine for such aspects as acidity, methanol and water content.

TLR takes part in independent quality management standards like GAFTA (including special accreditation for GAFTA biomass analysis), FOSFA, QS and GMP+. The SCOTA has also designated TLR as a preferred laboratory. TLR is accredited (L059) or approved by many international organisations.

*'Innovative services and analysis methods so we can offer you future-proof solutions'*

## TLR DOES MORE ON YOUR BEHALF

Besides its extensive package of analyses, TLR can mean a lot more to you. We can help you navigate the regulatory framework and arrange sampling – within the European Union, but also worldwide thanks to the international network of our affiliate companies: Peterson and Control Union.

### Expert advice tailored to your needs

The TLR consultants can offer wide-ranging advice on enforcing and improving food safety and quality, troubleshooting, helping achieve the intended standard of product quality in production, and assisting in risk assessment and risk evaluation of food production processes according to methods and standards such as HACCP, ISO 22000, GMP+, GLOBALGAP, BRC, IFS and QS.

### Quality and safety training

TLR offers tailor-made training programmes in food quality and food safety for your ranking staff and employees. Your staff will acquire the relevant skills they need to achieve your management goals. We target all segments of the food sector, including catering, food production and distribution, and retail.

### Solutions that suit your needs

The range of services provided by TLR are not easily described in a short, simple phrase. On the one hand, this is because we are dedicated to ongoing innovation, so we frequently add new services and advanced analysis methods to our range. Conversely, we deliver tailor-made solutions for analyses and other research questions whenever necessary.

### Do you have a question for us?

Feel free to call or e-mail; our team of account managers is ready to help you find a solution that suits your needs!



## ACCREDITATIONS

TLR is NEN-EN-ISO/IEC 17025 accredited (L059) by the Dutch Accreditation Council. In addition, TLR is accredited (L059), certified or approved by the following international organisations:

- 1 FOSFA - Federation Oils, Seeds & Fats Associations Ltd.
- 2 FEDIOL - European Vegetable Oil and Proteinmeal Industry
- 3 NOFOTA - Netherlands Oils, Fats and Oilseeds Trade Association
- 4 GAFTA - Grain and Feed Trade Association
- 5 VERNOF - Association of Dutch Producers of Edible Oils and Fats
- 6 QS - Qualität & Sicherheit (scope: feed, and fruit & vegetables)
- 7 GMP+ Feed Safety Assurance scheme
- 8 OVOCOM Platform Animal Feed chain
- 9 GlobalGAP
- 10 VLOG (Verband Lebensmittel Ohne Gentechnik)



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