



**Commodities  
International  
Survey Services**

**AGRI  
LABORATORY**



*It's Shipping & Survey*



**Our Company CISS GROUP  
(Commodities International  
Shipping and Survey) –  
this is a team of professionals  
with experience of doing business  
in major international companies  
more than 15 years.**

## ABOUT COMPANY

Head office of **CISS GROUP** is located in Singapore. We have teamed up our forces, experience and knowledge in order to offer only the best practice and business solutions in the field of independent inspections and vessels chartering for active commodities traders, producers and others players all over the world.

Operational excellence and high standards of **CISS GROUP** allow our partners feel protected twenty-four-hour a day.





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**AGRI  
LAB**

**One of the main and leading agricultural laboratory within CISS GROUP is located in Odessa, Ukraine (covering whole Black Sea region).**

The laboratory provides very wide spectrum of analysis – between others GMO analyses by PCR method in real time. Other analysis include basic physical and chemical testing of agricultural products: grains, oilseeds, vegetable oils, pulses and by-products (wheat bran, sunflower seeds meal and sunflower seeds cakes, rape/soybean meal).

**LABORATORY CISS GROUP is GAFTA, FOSFA and ISO 9001 certified. Twice a year we successfully undergo through GAFTA and FOSFA ring tests which confirms the accuracy of laboratory's results and the professionalism of employees.**





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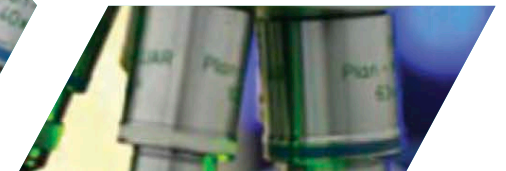
Due to long professional experience of the staff and modern equipment installed, **LABORATORY CISS GROUP** provides very reliable testing results in shortest possible turn around time (TAT) with the guarantee of accuracy and reliability.

Long standing close cooperation with our customers, means that we are very familiar with their needs and being able to support their quality control requirement.

This cooperation allow us to mutually improve our operations - we build up our analytical knowledge and experience, while our clients gain a partner who gives them independent advice and assessment of their goods and products.

Our laboratory is equipped with the latest available equipment, which we upgrade as soon as the market provides a new model with highest accuracy or faster TAT.

**AGRI  
LAB**





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# GMO ANALYSIS

## GMO DETERMINATION

As the amount of commercially available genetically modified products (GMOs) grow recent years, the diversity of targeted sequences for molecular detection techniques are needed. Considered as the most accurate standard for GMO analysis, the real-time PCR technology is widely recognized as the best to produce a high-throughput GMO screening method.

Laboratory provides the main GMO quantification as follows:

- CaMV 35S promotor
- FMV 35S gene
- NOS terminator
- NPTII gene
- EPSPS modification
- PAT(SYN) gene
- BAR gene





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**EXPRESS  
ANALYSIS**

**The Laboratory of  
CISS GROUP provides  
chemical analysis for  
arbitration purposes**



Our EXPRESS ANALYSIS department is able to provide testing services “in field”:

- during incoming control – at terminals,
- during vessel loading operation on roads (at anchorage place) directly onboard the vessel,
- during stock monitoring inspection – at inland silos and warehouses,
- during crop monitoring or harvesting – in field or storage warehouses.





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In today very demanding and competitive trading world it is of paramount importance for customers to get the quality results during loading or discharging operation in a very fast manner. So of any inconsistency of cargo quality found they have the opportunity to protect themselves from non-fulfillment of the contract.

Proving express-analyses directly on the ship - or any other point of logistic chain - you will be assured that cargo is delivered (loaded into vessel holds) in sound, good and merchantable condition.

We have our own mobile express grain laboratory.

For these express-analyses we are using:

- different sieves;
- express moisture testers;
- radiation meters;
- sampling rods.

**EXPRESS  
ANALYSIS**







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# MOBILE EXPRESS GRAIN LAB

**Our moveable express grain laboratory is always on STAND-BY position.  
The vehicle can be very quickly despatched to required  
by the customer point of sampling of stored goods.**

**Our mobile laboratory team can provide either verification  
of the growing process of the plants vegetation or the final  
verification of the goods quality.**





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A close-up photograph of a laboratory setting. A person wearing blue nitrile gloves is using a pair of tweezers to handle a small, dark, rectangular object, possibly a sample or a piece of equipment. In the foreground, there are several clear glass petri dishes and a beaker containing yellow and brown grains. A whole ear of yellow corn is visible on the right side of the frame.

# INCOMING CONTROL AT TERMINAL

**For incoming control, we use express-analyses equipment: infrared determinator**

Incoming quality control is the process used to validate the quality of supplied lot or sub-lots of controlled goods. The outcome of this process is required to determine if the supplied lot is “compliant” with contractual parameters or not? If yes, then the cargo is accepted for discharging from the truck or railway wagon into warehouses. If cargo is not matching the specified in the contract parameters, then cargo is rejected as non contractual and returned back to the supplier.





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**Our infrared scanners are very accurate devices, which also can be used for quality control during the production process.**

These devices provide the most reliable and accurate results and are mostly used in factories and warehouses involved in grain processing or storage.

Also, this equipment is used at cereal reception points at the mills and many other agricultural-related sectors.

The introduction of the latest technologies in the development of this device make also possible a complete automation of the analysis process. All the operator needs to do is to fill the loading hopper of the device with the sampled product and after a few seconds, the operator obtains a printed record with the exact percentage of impurities in the sample, moisture and protein content.



**INCOMING  
CONTROL AT  
TERMINAL**





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**For qualitative and quantitative GMO determination we use QuickScan device.**

QuickScan is a very precise strip-reading system that enables grain customers to have GMO and mycotoxin results in fast manner, providing quantification and traceability.

For mycotoxin and GMO fast scan determination most frequently we use kits manufactured by EnviroLogix which provide:

- Speed - Reading test strips rapidly and providing results in seconds.
- Flexibility - Processing single strips, or multi strips - up to four different mycotoxin strips, or an entire GMO multi-trait "comb".

- Precision - Image processing and a unique barcoding system ensure accurate, consistent results, without the necessity for recalibration.
- Traceability - Access to electronic results instantly for emailing, printing or analysis storage at hard disc.



**INCOMING CONTROL AT TERMINAL**



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**OUR  
TRUSTED  
PARTNER  
LABS**

**For analyses which can not be provided by own lab, we use accredited, internationally recognized laboratories with proved experience and reliance.**

We have very close relations with many leading laboratories of the world – TLR, Bureau Veritas, SGS, NofaLab, Eurofins etc. This help us to provide our Clients best rates and soonest testing results.



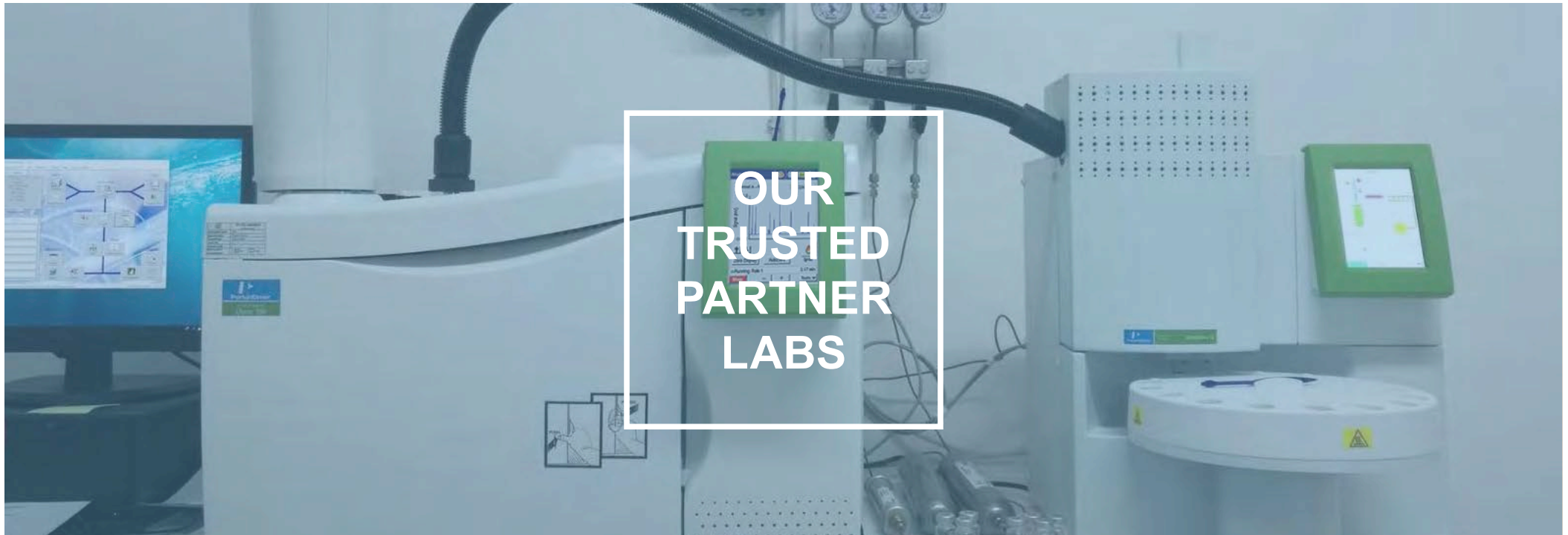




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**One is our trusted partner is CIQ/CCIC group of companies. They are especially strong at Asia region.**

CIQ/CCIC Jakarta Food Laboratory was established in 2014 to cater to the growing demands for analysis of palm peripherals originating from Malaysia and Indonesia. The lab is FOSFA accredited and can perform the full spectrum analysis of palm peripherals in accordance with the Chinese Guo Biao (GB) standards.





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**Our other strong partner is  
PT. INDOPAC CONTROL SERVICES  
(part of Europac), which provides  
Independent Laboratory Services.**

Their main advantages:

- FOSFA accredited;
- SNI ISO/IEC 17025 :2008 accredited by KAN;
- Fully Equipped Laboratory for Palm Oil Products.



**OUR  
TRUSTED  
PARTNER  
LABS**





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A background image of a laboratory setting. In the foreground, a microscope is visible, with its objective lenses and stage clearly shown. To the right, there are several glass bottles, some with labels, including one labeled 'Metanol'. The overall scene is dimly lit, with a focus on the scientific equipment.

## METHODS OF ANALYSIS

**Since Quality control has become one of the main factors in today competitive business environment, we invest heavily in our research laboratory to prove our reliability as trusted partner for you.**

We believe that our confident and professional staff backed by modern equipment in the laboratory is able to ensure the proper quality assessment of your goods, as well as protect you from all costly and quite often non substantiated claims or complain of a contract non-fulfillment.

**CISS GROUP** constantly improves the methods of analysis and expands the list of testing provided to meet client's requirements for control and safety of Agri commodities.





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**New laboratory division just recently launched in Odessa, Ukraine, is purposely equipped for analyses including the following:**

## **METHODS OF ANALYSIS**

### **For GRAINS:**

- Determination of Test weight
- Determination of Foreign matter and impurities
- Determination of Moisture content
- Determination of Protein as per Kjeldahl method
- Determination of Gluten content

### **For FEED:**

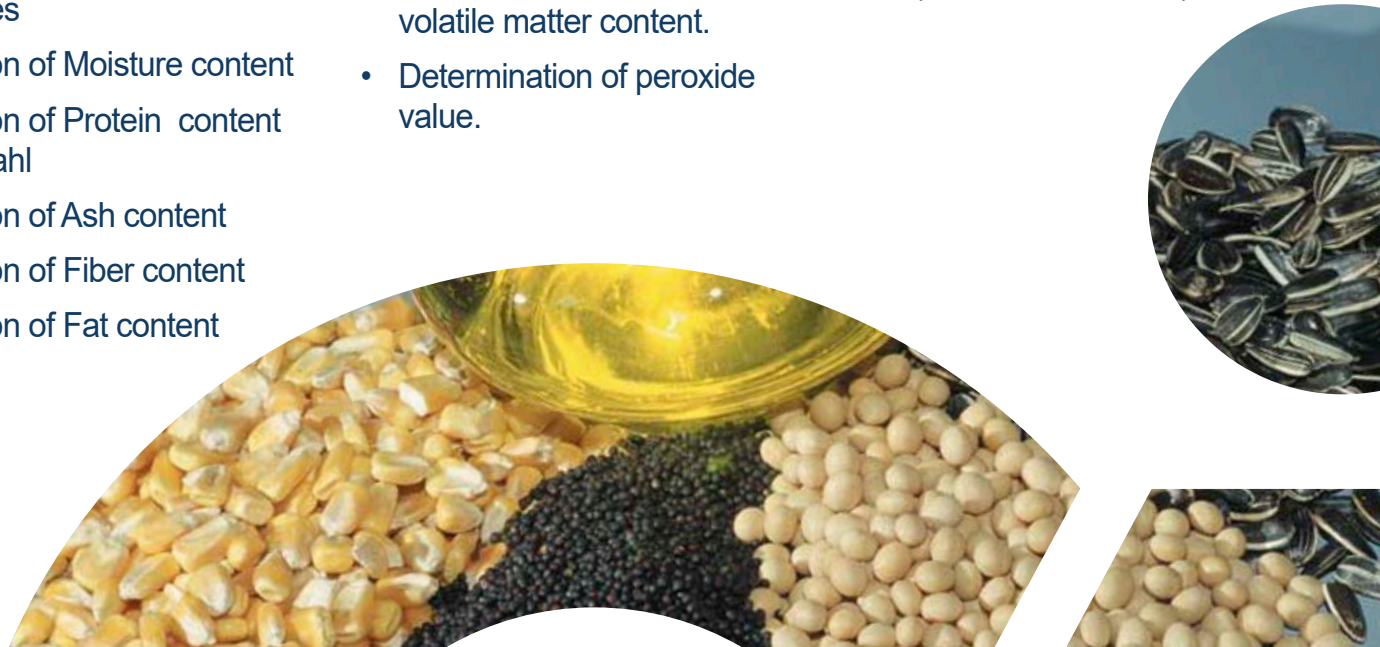
- Determination of Foreign matter and impurities
- Determination of Moisture content
- Determination of Protein content as per Kjeldahl
- Determination of Ash content
- Determination of Fiber content
- Determination of Fat content



### **For VEGETABLE OIL:**

- Flashpoint test using Pensky-Martens closed cup flash tester.
- Determination of acid value and acidity.
- Determination of insoluble impurities content.
- Determination of iodine value.
- Determination of conventional mass per volume.
- Determination of moisture and volatile matter content.
- Determination of peroxide value.

### **For OILSEEDS:**

- Determination of oil content.
- Determination of free fatty acids on the oil.
- Extraction of the oil.
- Determination of acid value and acidity (free fatty acids).
- Determination of content of impurities.
- Determination of moisture and volatile matter content (Reference method).





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