



# **Welcome to «NEOCHROM»**

*Standart for quality management system ISO 9001: 2008 SIC.MS.008. ISO9001.215 certified.*

«NEOCHROM» is a company focused on meeting customer requirements and identification of needs in the field of scientific instrumentation, control and development of technical production schemes for their application in chemical analysis and synthesis.

## MISSION

To make products and provide services that, due to their uniqueness, quality, ease of operation and fair value, give additional advantages to the customer.

To create, sell and maintain high-quality equipment for different market segments. Create a product that is superior or not inferior to competitors' one in all respects.

Individual approach to each customer: development, production, implementation and maintenance of NEOCHROM analytical equipment, which can be ordered for specific goals and objectives of the customer.

To provide the widest possible range of the NEOCHROM laboratory equipment for the customer with various financial opportunities.

To form a dealer network of professionals who are able to solve customers problems in close cooperation with colleagues.

To provide worthy long-term employment, fair wages, professional growth opportunities and good working conditions.

The basis of our successful work is high-quality satisfaction of our customers needs.

## ABOUT COMPANY "NEOCHROM"

The Ukrainian company "NEOCHROM" carries out production and service of high-precision analytical devices for the physical and chemical analysis. NEOCHROM devices are used in most types of laboratories engaged in research and routine analysis in the field of chemistry: petrochemistry, natural gas extraction and processing, agrochemistry, biochemistry, food industry, biology, medicine, ecology, forensics, pharmaceuticals and many others.

"NEOCHROM" is the first and only company in Ukraine, which for fifteen years has been producing gas chromatographic equipment capable of meeting the requirements of analytical laboratories with different needs and financial possibilities.

Due to the high professional level of employees and excellent quality, NEOCHROM equipment successfully works in laboratories of industrial enterprises and scientific institutions of different countries.

The online systems of gas chromatographic and spectral control developed by NEOCHROM successfully find its application at the enterprises of Ukraine and the other countries.



NEOCHROM service provides prompt delivery, installation of devices and training of the personnel, carries out maintenance of the equipment in any region of Ukraine and abroad.

The "NEOCHROM" company applies a comprehensive approach to the production of equipment in accordance with the tasks of a customer. Our main task is the correct choice of device configuration and qualified assistance in solving analytical tasks of the customer's laboratory. We design and manufacture our devices for your tasks, hence you do not need to adjust your tasks to our devices.

---

## COMPETITIVE ADVANTAGES

- *products of the highest quality at a reasonable price;*

- *warranty period of 7 years (if annual maintenance and verification is carried out);*

- *NEOCHROM main office is located in Zaporizhia, Ukraine, which allows to receive timely consultations and service;*

- *international supplies are carried out without difficulty;*

- *our production is **ISO-9001:2015** certified;*

- *each copy of the NEOCHROM device is verifacated and calibrated according to an appropriate technique depending on wishes of a customer;*

- *all NEOCHROM devices are new, manufactured in the current quarter of 2020;*

- *intuitive, free updated software;*

- *educational program and practice for the customer's staff in the **ISO/IEC 17025:2017** certified laboratory.*

---

## GENERAL DESCRIPTION OF NEOCHROM EQUIPMENT

The NEOCHROM gas chromatograph is made of the solid covering which contains functional elements, control elements, visual control of work system, detection system, control systems of temperatures and gas consumption.

The whole range of modern detectors is implemented on NEOCHROM gas chromatographs:

- FTIR detectors;

- thermal conductivity detector;

- flame ionization detector;

- flame photometric detector;

- thermionic ionization detector;

- electron capture detector;

- photoionization detector;

- helium ionization detector;

- chemiluminescent detector;

Additional equipment can be installed:

- autosampler;
- automatic gas taps/dispensers;
- manual gas taps/dispensers;
- pyrolyzer;
- thermal desorber.

Interface for software data processing:

USB;  
ETHERNET (optional).

Software for data processing may be used:

"NEOCHROM";  
"Unichrom".

NEOCHROM gas chromatographs are equipped with capillary columns of leading manufacturers and nozzle columns of own production made of high-quality polymeric and inorganic sorbents.

Each column is approved before implementation to perform analytical tasks of the customer.

## RANGE OF ANALYTICAL INSTRUMENTS - NEOCHROM CHROMATOGRAPHS

The electronic components that determine the sensitivity of the analysis (except for special configurations) used in NEOCHROM chromatographic systems are the same for the entire range of instruments, which allows to obtain reproducible results in terms of

sensitivity for models with different prices. More expensive models are equipped with additional modules that facilitate the work of the operator and provide additional opportunities for analysis, storage of chromatographic data or allow to create a network of devices.

### NeoCHROM Class A – the simplest, reliable and inexpensive.



Installed manual controllers of expenses. They can be equipped with a full range of evaporators and detectors, except for mass spectrometric. USB interface. The main advantage is the low price. The disadvantage, as with all manually controlled devices (compared to devices with automatic control) - worse reproducibility of retention time. Modernized chromatographs from other manufacturers also belong to the same class.



## NeoCHROM Class B – equipped with electronic regulators of the carrier gas consumption.



The whole range of detectors can be installed. Various systems of sample input may be implemented (autodispenser, manual or automatic gas dispenser, pyrolyzer, etc.) USB or ETHERNET (optional) interface. Excellent reproducibility of retention times.

## NeoCHROM Class C – for highly qualified specialists.



Built-in PC, possibility to work with and without a computer or to create a network of devices. GSM-modem, GPS connection. USB, COM and ETHERNET interface. Ideal application of this equipment is in production laboratories, where analysis must be performed with eliminated influence of the human factor. Another advantage is possibility of independent protocol recording by the device (in particular - chromatogram recording).

## NeoCHROM Class SX – made-to-order.



Complex analytical systems of the highest quality, which include any configurations made to order for various analytical tasks, including online quality control of multicomponent mixtures (gases, petroleum products, polymer pyrolysis products, etc.). Can be additionally equipped with mass-selective, helium-ionization, FTIR, chemiluminescent detectors, etc.

## MODERNIZATION

Over time, even the most modern technical solutions become obsolete.

Our solution – modernization - will help to keep pace with the progress (<http://neochrom.biz/modernizaciya.html>).

In fact, your company gets a new chromatograph with modern electronic components in an updated covering. The brand of the chromatograph that is being modernized does not matter - the device is certified and tested in accordance with the technical conditions on the CLASS A series chromatograph (Fig. "CHROM 5" after the MODERNIZATION). Already today we offer ready solutions for the modernization of chromatographs.

Warranty period for upgraded equipment - from 1 to 3 years.



# READY SOLUTIONS FOR ANALYTICAL TASKS

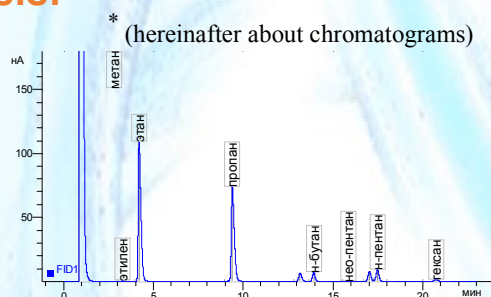
NEOCHROM gas chromatographs are used in solving analytical problems of energy industry, metallurgy, agriculture, science, medicine, other various industries, etc.

## Analysis of transformer oil:

- determination of dissolved gases in insulating transformer oil according to the **COY-H EE 46.302:2006, ASTM D3612**
- method of determining the content of antioxidant additive BHT (Butylated hydroxytoluene) in insulating transformer oil according to the **COY-H EE 46.501:2006**.

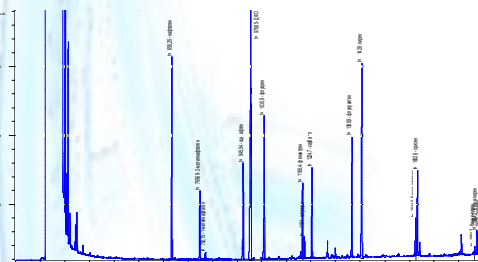
## Natural gas analysis:

- determination of the component composition of natural gas according to the **ISO 6974:2007**;
- determination of physicochemical properties of natural gas according to the **ISO 6976:2009**.

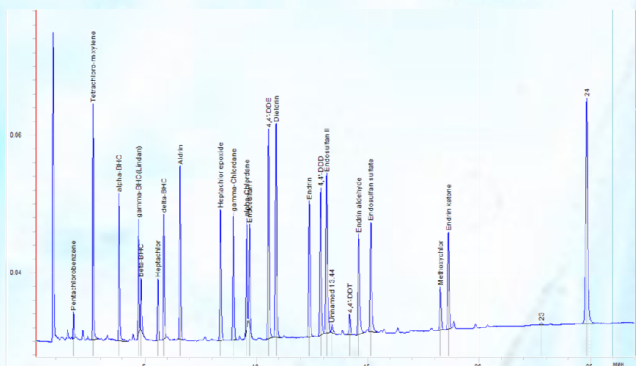


## Determination of benzo[a]pyrene and other PAHs in the environment, food, etc.

- determination of polycyclic aromatic hydrocarbons in soil in water, in atmospheric air according to the **ISO 13859, ISO 28540, ISO 12884**;
- determination of benzo[a]pyrene in atmospheric and workplace air.



## Research of food raw materials and food:

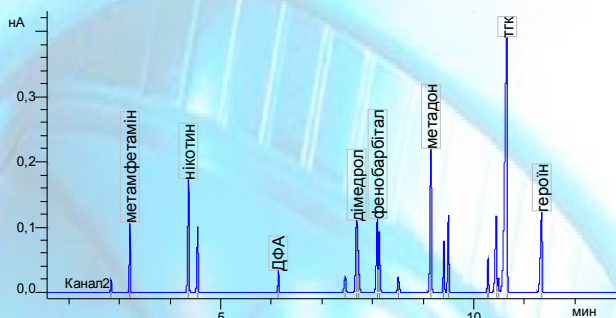


- determination of pesticides;
- determination of mycotoxins;
- determination of nitrosamines;
- determination of hormones.

\* Although chromatographs obtained on NeoCROM gas chromatographic equipment are a reflection of objective reality (with known limitations), the company is not liable for damages (direct or indirect) caused by the use of these materials in your practice.



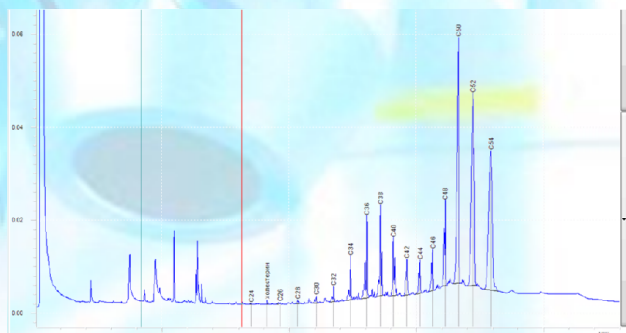
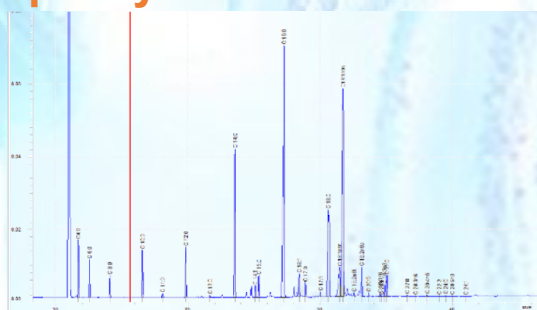
## Research of narcotic drugs, psychotropic substances and their precursors, potent and toxic substances:



- qualitative gas chromatographic analysis;
- quantitative analysis;
- identification (comparative analysis) in order to establish a common source of origin.

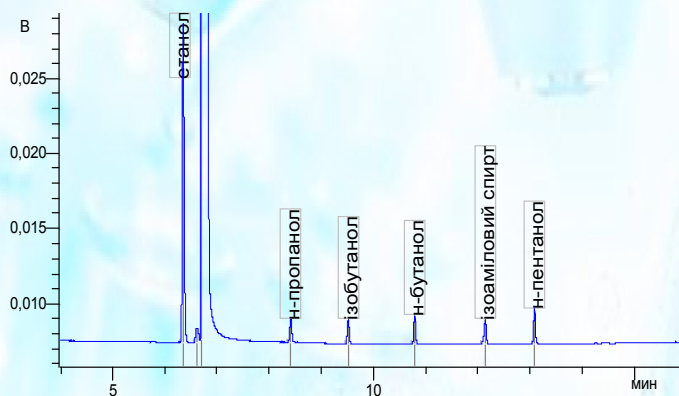
## Oil and fat products quality determination:

- determination of fatty acid composition of dairy products in accordance with ISO 15885;
- determination of trans fatty acids;



- determination of milk fat purity with gas chromatography of triglycerides, ISO 17678;
- determination of the presence of vegetable fats with gas chromatography of sterols, ISO 3594

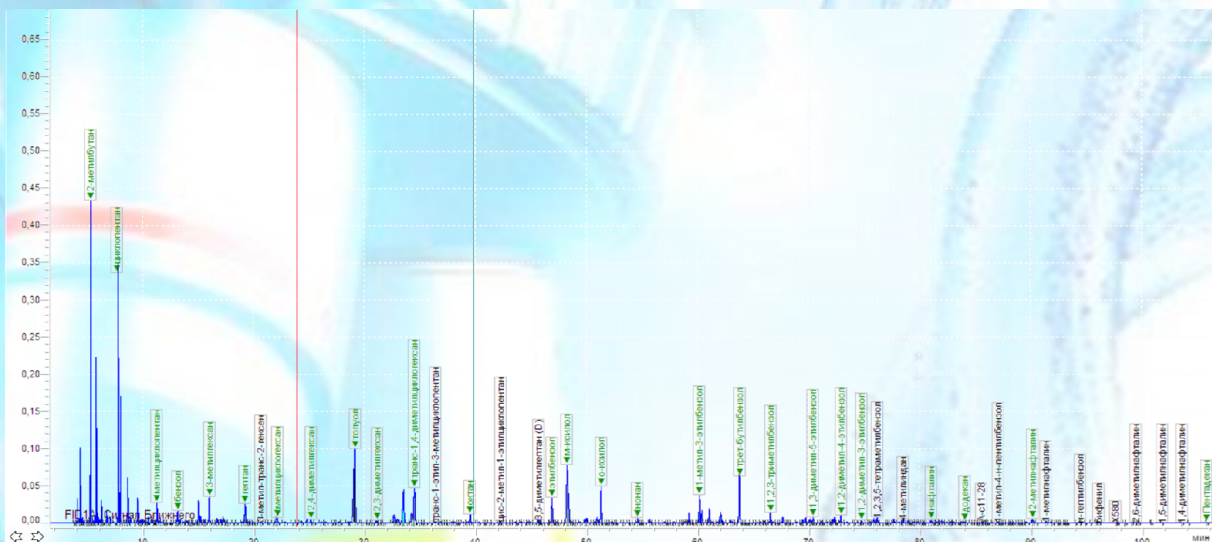
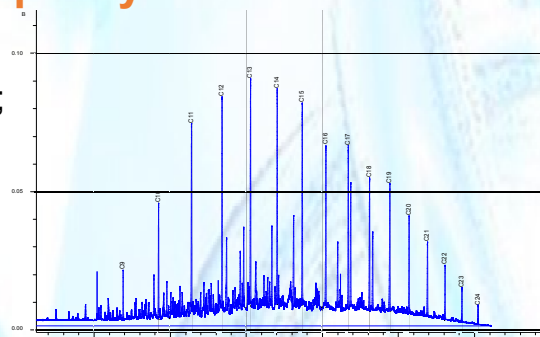
## Quality research of alcohol-containing liquids:



- research of industrial alcohols (denaturing additives, conformity of composition).

- food and medical alcohol quality researches (determination of toxic micro-impurities, fusel oils, acids, etc.);
- research of alcoholic beverages (compliance with DSTU, GOST, authentication);
- cognac research, identification of age markers in order to establish authenticity;
- research of bioethanol (additive to motor fuel);

- gasoline quality research;
- biodiesel and diesel fuel quality research;
- research of quality of mineral, semi-synthetic and synthetic oils;
- analysis of impurities.

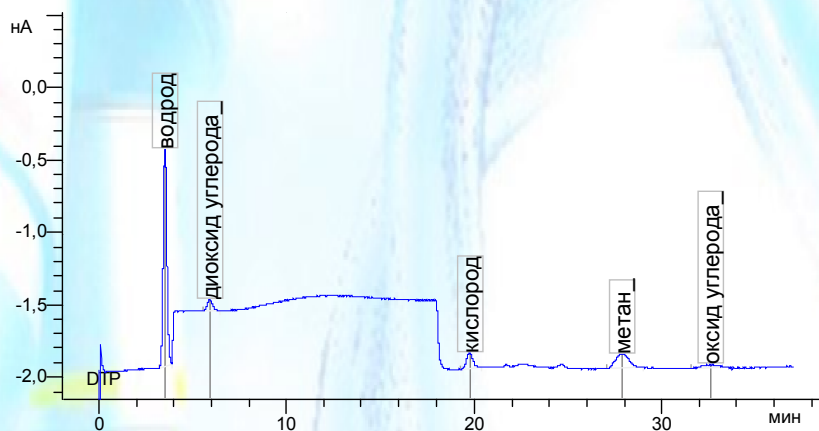
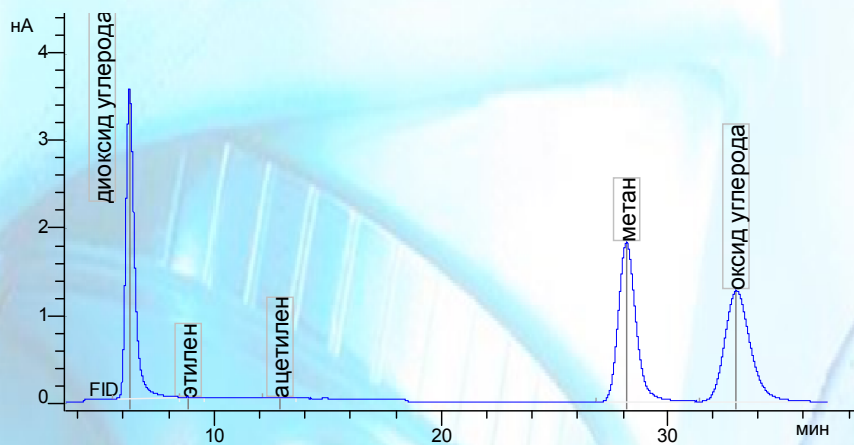


When bioethanol is added to gasoline, the amount of water in the gasoline mixture can increase, increasing the potential for corrosion and microbial growth. Therefore, ethanol producers must minimize the water content in it. The water content in alcohol is determined on the GC with a thermal conductivity detector, which allows to determine the water content beginning from 0.03%.

Alternatively, a helium ionization detector can be used, which increases the detection level to 1 ppm

NeoCHROM gas chromatographic systems gain success in analysis of mine air for the purpose of diagnostics and the forecast of endogenous fire danger in case of spontaneous combustion of coal using a ratio of the revealed gas components.





Due to the professionalism of qualified employees of the company and the availability of appropriate material-technical base, any decisions and ideas can be realized on the basis of methods, regulations or recommendations stated by the customer.



SYSTEM OF  
INTERNATIONAL  
CERTIFICATION

# CERTIFICATE

of Quality Management System

SIC.MS.008.ISO9001.1814 dated 08.10.2020

The Certification Body "Bureau of International Certification" hereby certifies that the Quality Management System of

**CHROM**  
**Neo R&D**  
**"NEOCHROM"**

LIMITED LIABILITY COMPANY

69006 Ukraine, Zaporizhia, Pivnichne Hwy, 30  
code 40108117

**concerning:**

- production of chromatographs, spectrophotometers, infrared spectrometers with Fourier transform (FT-IR), mass-spectrometers (inductively coupled plasma mass spectrometry (ICP-MS) and Optical Emission Spectrometry (ICP-OES);
- development of analytical equipment on demand;
- development of control measurement and automation equipment;
- modernization of analytical equipment;
- development and implementation of determination methods of laboratory research in the field of chemical industry;
- research of food quality indicators;
- research of indicators of quality of production of household and industrial use;
- environmental research;
- cleaning, production of chemical solvents and reagents, standard samples

complies with the requirements of the

## ISO 9001:2015

"Quality management systems. Requirements"

INTERNATIONAL STANDARD

Date of Certification:

08.10.2020

Date of Expiry:

07.10.2023

subject to annual approval

2021 - till 08.09.2021

2022 - till 08.09.2022

Head of the Certification body

A. Bogonos



**ISO 9001**  
**CERTIFIED**  
SIC.MS.008.ISO9001.1814

Bureau of International Certification, Obolonska embankment, house 19, building 4, office. 14, Kyiv, Ukraine  
Tel./Fax: +38044 455-90-92 Notification Letter: SIC.CB.804.008, Date of Notification: January 11, 2019,  
issued by S.I.C. Global Inc., 346 WIGSTON DR, Suite 4, NORTH BAY, ONTARIO, P1A 1X3, CANADA

www.sic-global.com



## LABORATORY INFORMATION

Partner of the company - "Research on demand lab"

This ISO 17025 certified laboratory provides services in the field of product testing, research, products composition and formulation (benchmarking), product authentication.

The laboratory includes departments of physicochemical, chromatographic and spectral research. It uses devices for gas and liquid chromatography, spectral equipment (visible, ultraviolet and infrared spectrophotometers, Fourier-transform spectroscopy equipment, atomic absorption spectrophotometer, inductively coupled plasma mass spectrometry, etc.) These devices and other additional equipment, as well as specially equipped premises, availability of methodological bases and highly qualified personnel allow us to carry out the vast majority of research for customers.

The laboratory is engaged in development of new measurement methods and their implementation in the laboratory practice of various organizations.

The training center organized on the basis of the laboratory allows to train customers staff to work with chromatographic equipment manufactured under the brand name NeoCHROM and other analytical instruments for various purposes of enterprises and organizations in Ukraine and other countries.

**GAS**  
GLOBAL ACCREDITATION SYSTEM

### CERTIFICATE OF ACCREDITATION

Registration № GAS.L.804.017

**This is to confirm that**  
**LIMITED LIABILITY COMPANY**

**CHROM**  
Neo R&D

### RESEARCH ON DEMAND LAB

Registration address: 3 Central Boulevard, Apt. 304, Zaporizhzhia, 69005, Ukraine  
Location address: 30 Pivnichne shose street, Zaporizhzhia, 69006, Ukraine  
Code 40132972

complies with the requirements for testing laboratories  
as described in ISO/IEC 17025:2017 and is valid as

### "Testing Laboratory"

The accreditation scope is provided in Annex 1 to this certificate, which is an integral part of it.

The accreditation is valid provided that the testing laboratory continues to meet the criteria as laid down by the Global Accreditation System (GAS).

Effective date: April 19, 2019  
Expiration date: April 18, 2022

*subject to annual approval*  
2020 - till 19.03.2020  
2021 - till 19.03.2021

Regional Representative

Global Accreditation System,  
S.I.C. Global Inc. Accreditation Department  
346 WIGSTON DR, Suite 4, NORTH BAY, ONTARIO, P1A 1X3, CANADA

# LLC "NEOCHROM", NeoCHROM®

**Representative offices in Ukraine:**

**LLC "NEOCHROM-TRADE"**  
***authorized company representative***

69006, Zaporizhia, Pivnichne Highway 30

tel.: +38 061 228 77 17

+38 061 228 77 46

+38 067 715 38 26

e-mail: [info@neochrom.biz](mailto:info@neochrom.biz)  
[ceo@neochrom.trade](mailto:ceo@neochrom.trade)

**Individual entrepreneur**  
**Andrii Stieklienov**  
**authorized company representative**

Dnipro

tel.: +38 097 360 29 79

e-mail: [ceodnepr@neochrom.biz](mailto:ceodnepr@neochrom.biz)  
[steklenev@ukr.net](mailto:steklenev@ukr.net)

**[www.neochrom.biz](http://www.neochrom.biz)**