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Z 7014

Proficiency Testing Group

Proficiency testing provider no. 7014 accredited by ČIA

according to ČSN EN ISO/IEC 17043:2023

Information on Programme PT/BIO/2027

Dear testing laboratory employees,

We invite you to participate in the **PT/BIO/2027** proficiency testing programme, which is designed as an interlaboratory comparison. The programme is intended for testing laboratories that perform tests on solid biofuels. The aim of the programme is to demonstrate the competence of accredited and non-accredited laboratories, including verification of the measurement uncertainties used.

PT Programme

The subject of the **PT/BIO/2027** programme is determination of

- ash,
- gross calorific value,
- sulphur content,
- carbon content,
- hydrogen content,
- nitrogen content,
- chlorine content and
- mercury content.

Test Items

The test items will be four analytical samples of solid biofuels.

The test items will be prepared by an external provider in a testing laboratory. The homogeneity and stability of each set of items will be verified, and the necessary analyses will be performed by an external service provider in an accredited testing laboratory. The SZZ is fully responsible for these services.

PT Programme Organization

- The deadline for sending applications is **March 1, 2027**.
- Four items of about 35 g will be shipped along with detailed instructions by **March 8, 2027**. Other delivery methods can be arranged.
- The tests will be conducted and the results delivered by **April 12, 2027**.
- We will send participants who have paid the program fee a final report, a certificate of participation, and an individual performance evaluation by email by **May 17, 2027,** at the latest.
- If items are not delivered on time according to the schedule, please file a complaint with SZZ.
- Participants may use any methods they normally use. Separate evaluation of results by method is only possible if there are sufficient results for a given method; otherwise, this will be considered in the comments on the results.
- It is not an obligatory requirement to determine all characteristics or all items in the program. However, the fee remains the same in such cases.
- Items will be identified by unique numerical codes to prevent collusion or falsification of results.
- Each participant will receive only one set of items and may submit only one set of results.
- Once the report has been published, the results received cannot be changed nor deleted.

Results and evaluation of the PT programme

The results of the PT programme evaluation will be included in a final report. This report will publish the following information from participants: laboratory number, experimental data and their uncertainties, and additional information. Participants from the Czech Republic and Slovakia will receive all documents in Czech, while participants from other countries will receive them in English. The deadline for appealing the final report is **June 17, 2027.**

In accordance with the requirements of ČSN EN ISO/IEC 17043, statistical methods according to ČSN ISO 13528 will be used to evaluate the participant's performance, with the evaluation of performance according to z-score or z'-score. The result is considered satisfactory if $|z_i'| \leq 2$, questionable if $2 < |z_i'| < 3$, otherwise unsatisfactory. A suitable robust mean value characterizing the given distribution of the set of laboratory results will be used as an assigned value. In the event of a low number of laboratories, Horn's procedure will be used. The differences will then be compared with the standardized values for reproducibility according to the standards:

- **ČSN EN ISO 18122 Solid biofuels** – Determination of ash content.
- **ČSN EN ISO 16994 Solid biofuels and pyrogenic biocarbon** – Determination of sulfur and chlorine content.
- **ČSN EN ISO 18125 Solid biofuels** – Determination of gross calorific value.
- **ČSN EN ISO 16948 Solid biofuels** – Determination of total content of carbon, hydrogen and nitrogen.
- **ČSN ISO 15237 Coal** – Determination of total mercury.

Application

The criteria for participation are the timely submission of a complete application by **March 1, 2027**, agreement with the terms and conditions in the application, and the participation of a minimum of 7 laboratories. Please send your signed application electronically to szz@orgrez.cz. The application form and other information about proficiency testing programs can be found at https://www.orgrez.cz/en/laboratore/proficiency-testing-of-testing-laboratories.

Participation Fee

The fee for participation in the **PT/BIO/2027** programme is **CZK 16,200** excluding VAT. Transportation costs and any applicable taxes and other fees are not included in the fee and will be added according to actual costs. Once the items have been dispatched, each participant will receive a tax invoice. If you are interested in quality control materials, the fee is **CZK 650** excluding VAT per sample. Payment in EUR will be charged according to the current CZK/EUR exchange rate on the date of invoice issuance. If you need to issue an order, please specify the date of **March 8**, **2027**, or later for invoicing purposes.

Privacy Policy

ORGREZ, a.s. processes personal data of business partners in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, effective on 25 May 2018, on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (GDPR) information on the processing of personal data of business partners is available on the website of ORGREZ, a.s., (https://www.orgrez.cz/en/gdpr).

Wishing you successful cooperation

Michal Petrák – coordinator of the Proficiency Testing Group