

Appendix No. 3 – Description of the Subject Matter of the Contract

Service for Performing Targeted and Untargeted Metabolomics Analyses

Scope of work and demonstration of the ability to engage a subcontractor.

The Contractor shall be responsible for the provision of targeted and untargeted metabolomics analyses from the original donation (native stool), the pellet after centrifugation the stool, and the supernatant after centrifugation the stool.

Detailed scope of the service:

1. The Contractor shall cover the costs of a one-time organized delivery of samples for analysis. This cost shall include the delivery of 60 samples to the place where the analysis will be performed. The Ordering Party, in agreement with the Contractor, shall be responsible for ensuring appropriate transport conditions for the samples to the laboratory.
2. Preparation of the collected samples for analysis, including sample homogenization, preparation of blanks and pooled QC samples for quality control purposes, preparation of standards (in the case of targeted metabolomics), extraction / protein precipitation, cold-chain handling, centrifugation and supernatant collection, and filtration into appropriate containers.
3. Performance of the analysis using a dedicated system, e.g. gas chromatography (GC) or liquid chromatography (LC) coupled with mass spectrometry (GC-MS or LC-MS/MS), or an equivalent solution (including system preparation, column conditioning, development of the injection sequence, MS tuning and control, data acquisition, and ongoing quality control during the analyses).
4. The Contractor undertakes to provide the Contracting Authority with the complete results of the analyses/tests in electronic form and, at the Contracting Authority's request, also in hard copy. The results shall be prepared in a clear and structured manner enabling their unambiguous interpretation.
5. The analysis shall cover the determination of the following metabolites:
 - The service shall include untargeted metabolomics analysis enabling the identification of the broadest possible range of metabolites, with coverage of the principal compound classes and metabolic pathways, including but not limited to amino acids and peptide derivatives, carbohydrates and central carbon metabolism intermediates, lipids and fatty acids, bile acids, vitamins and cofactors, nucleotides, steroids, xenobiotics and drug-related compounds, and metabolites of bacterial and fungal origin..
 - The service shall include targeted metabolomics analysis enabling the determination of the concentrations of the following short-chain fatty acids (SCFAs): acetic acid (C2), propionic acid (C3), butyric acid (C4), isobutyric acid (C4), valeric acid (C5), isovaleric acid (C5), 2-methylbutyric acid (C5), and caproic acid (C6).
6. The Order shall include the analysis of up to 60 samples representing three FMT fractions collected during the manufacturing process, namely: the original donation (native stool) (20 samples), the pellet after centrifugation (20 samples), and the supernatant after centrifugation (20 samples). The samples shall be organized into 20 triads, each triad originating from a separate donor.
7. The analyses shall be carried out within 45 business days from the date the samples are delivered to the Contractor's laboratory. If the analyses cannot be performed within the specified period for reasons beyond the Contractor's control, such as a failure of the analytical equipment, the Contractor shall complete the analyses as soon as possible after regaining the ability to perform them.
8. Upon completion of the analyses, the Contractor shall promptly provide the results to the Ordering Party, no later than by 31 December 2026. The results shall be provided electronically in the form of a consolidated report



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Narodowe Centrum Badań i Rozwoju

to the Ordering Party's e-mail address.

9. The Order shall remain valid until 31 December 2026.

10. The Contractor shall ensure the possibility of consultation on the results, up to a maximum of 3 hours of specialist support under the Order.