



Proficiency test for Official Residue Control Laboratories

Beta-agonists in bovine urine (BETA0622)

PROTOCOL

General Information

This exercise shall assist the participating laboratories in verifying their analytical proficiency. Therefore the selected methods, the number of parallel analyses performed and the analytical procedures used should closely correspond to those normally applied within routine work. Each laboratory can freely choose which methods to apply (screening and confirmatory methods). Laboratories only performing a screening analysis are requested to indicate how a positive result is confirmed (by means of which method and in which laboratory). Each participant receives 4 samples of bovine urine (approx. 40 mL each). We kindly ask you to confirm the receipt of all samples immediately upon receipt using the online form:

https://ec.europa.eu/eusurvey/runner/BETA0522_SampleReceipt

password: provided by e-mail

Any consultation with other participants is against professional scientific conduct and impairs the intended purpose of this study. Thus, the participants themselves are responsible for gaining a genuine idea of their proficiency in routine analysis.

First information on laboratory performance will be provided in the form of a preliminary report. Participants are asked to confirm that all results transferred to the proficiency testing provider have been correctly reproduced in the preliminary report and point out any errors. The final report containing detailed information on the proficiency test and the participants' performance will be prepared from these (corrected) data. The participants' performance will be evaluated based on the principles described in the *Common Protocol for Proficiency Testing* available from the FIS-VL. The following modifications will be made:

- One point will be deducted from a participant's total score if they submit one or two false positive results. If more than two false positive results are submitted by a participant, two points will be deducted from their overall point score.
- To pass the proficiency test, a minimum of two thirds of the maximum possible point score needs to be achieved.

In the final report participants will only be referred to by their lab codes. The participants consent to the publication of their results in an anonymous form by the organiser of the



proficiency test. In addition, the results of the NRLs participating in this proficiency test may be provided in a non-anonymous form to the European Commission (DG SANTE) for internal use, as well as to the competent authorities of the Member States (according to Article 94, 2.(c), Regulation (EU) 2017/625). Analogously, the results of the German official laboratories may be provided in a non-anonymous form to the German competent authorities for internal use (according to Article 101, 1.(c), Regulation (EU) 2017/625).

To give feedback on the proficiency test, please contact eurlvetdrug@bvl.bund.de for the feedback form. For further information on the conduction of EURL proficiency tests, including details on the point score system used for performance evaluation, please refer to the Common Protocol for Proficiency Testing available from the EURL-website: <https://eurl-residues.eu/eurl-bvl/bvl-proficiency-tests/>.

Time Schedule

11.05.2022	Announcement of proficiency test BETA0622
31.05.2022	Deadline for registration
14.06.2022 04./05.07.2022 (German OCLs) 19.07.2022 (International participants)	Sample shipment
	Analysis of samples
03.09.2022 23.09.2022 07.10.2022	Deadline for submission of results
October	Dispatch of preliminary report to participants by e-mail
	Participants are asked to check whether the results they submitted are correctly reproduced in the preliminary report
October	Deadline for corrections to preliminary report
	Preparation of final report on results
First half of 2023	Dispatch of report on results (pdf data file) and follow-up questionnaire to participants
	Deadline for returning follow-up questionnaires
Summer 2023	Evaluation of PT in the framework of the EURL/NRL workshop



General information on the samples and their stability

The four matrix samples consist of incurred material which was produced in co-operation with the holding for test animals of the Federal Institute for Risk Assessment (BfR). The material was produced by mixing incurred materials with blank material and homogenising the total batch. The samples are shipped on dry ice and should be stored at -20 °C immediately upon receipt. The stability of the samples was checked for -20 °C, +4 °C and room temperature and can be guaranteed for at least three months when kept at -20 °C and under the absence of light. The stability tests for longer storage periods are currently underway. Should a significant instability be detected, its influence on the participants' results will be respected by adequate means.

Remarks on the analysis

The samples are to be examined for the presence of beta-agonists by applying your laboratory's routine test methods. If required, a method description for the determination of beta-agonists in urine is available from the EURL Berlin. The homogeneity of the samples was assessed for a quantity of 1 mL of urine and hence we recommend to use no less than this quantity for a single analysis. Any detected analytes are to be quantified and confirmed. For this purpose the criteria of Commission Decision 2002/657/EC or Commission Implementing Regulation 2021/808¹ are to be taken into account. At least two parallel determinations are recommended for the analysis of the sample material in the confirmatory analysis. If screening, as well as confirmatory analysis are carried out, the analyses should be performed independently from one another on separate aliquots.

Please note that participants shall analyse for the minimum required, as well as the recommended substances as specified in Table 1. For the performance assessment the marker residues laid down in Commission Regulation (EU) No 37/2010, if available, are relevant. Results for other metabolites can be provided additionally but will not be part of the proficiency assessment. However, if a sufficient amount of results is provided by the participants, the proficiency test parameters will be calculated.

¹ If your method has been validated in accordance with CD 2002/657/EC, you should refer to the identification criteria listed in this document. Likewise, if your method has been validated in accordance with CIR 2021/808, you should refer to the identification criteria listed in this regulation.



Table 1: Current classification of beta-agonists as minimum required, recommended, and optional analytes. Minimum required and recommended analytes are relevant for the proficiency assessment.

<i>minimum required</i>	<i>recommended</i>	<i>optional</i>
Please refer to the FIS-VL for the complete list.		

Report of the analytical results

The deadline for submitting the test results is 23 September 2022. Please exclusively use the provided result files and/or result form to indicate your results. The information has to be filled in completely and unambiguously.

There are

- 2 result files (LA2 and LAB) for the submission of the results of the confirmatory analysis. Both files (LA2 and LAB) need to be submitted.
- 1 result / method description form for the submission of screening results.
- Optional: 1 result form for the reporting of additional analytes, available upon request.

For the final report, the results will be used exactly as given by the participants in the result files and screening result form. Necessary recovery corrections have to be carried out by the participants themselves.

Indicating your results

- It is essential for the evaluation of the proficiency test to state the results of parallel determinations separately and not as mean values. For the confirmatory analysis a maximum of six separate results should be provided.
- If a recovery correction is required, it is to be carried out by the participants themselves. The kind of recovery correction applied is to be stated on the result forms.
- The quantitative results should be expressed by an analytically justifiable number of significant places.
- The indicated results should refer to the active drug without counter ions in the fresh material using the unit ng/mL or µg/L.
- The investigated and detected analytes are to be referred to by the names given in the result forms. In addition, the CC α (confirmatory methods) and CC β screening of the applied test methods are to be indicated.
- Confirmed analytical results should also be reported if they are below CC α .
- The requested validation parameters are to be indicated for all analytes detectable with the applied method.



Bundesamt für
Verbraucherschutz und
Lebensmittelsicherheit

European Union
Reference Laboratory
supported by the



Supplementary Information (only upon request)

The EURL may contact you for additional information like raw data or a copy of your method description.

Attachments

Result form for screening results

Instructions for use of result files (by separate email)

RingDat files for confirmatory results (by separate email)