Technical specifications for the stability testing of BCR-187 and BCR-188

(Pesticides in milk powder)

The following determinations shall be performed in the scope of stability monitoring of certified reference materials:

BCR-187 (pesticides in natural milk powder):

12 replicate measurements of HCB and p,p'-DDE shall be performed <u>under repeatability</u> <u>conditions</u>, i.e. in one analytical series. The measurements shall be equally distributed over 4 units, i.e. three measurements of each unit <u>coming from independent sample preparations</u>.

The minimum of sample to be used is 2 g.

The analytical sequence shall be communicated with the sample dispatch

One dry mass determination from each unit shall be performed, i.e. in total 4 dry mass determinations. To determine dry mass, accurately weigh an aliquot of at +/- 2 g on an analytical balance and drv the sample in an oven at atmospheric pressure, at 102 °C ± 1 °C, until constant mass is attained. Weighing of the samples for dry mass determination and weighing for the analysis shall be done at the same time to avoid differences due to possible take up of moisture by the material

BCR-188 (pesticides in spiked milk powder) :

12 replicate measurements of HCB, beta-HCH, beta-HEPO, p,p'-DDE, Dieldrin, Endrin and p,p'-DDT shall be performed under repeatability conditions, i.e. in one analytical series. The measurements shall be equally distributed over 4 units, i.e. three measurements of each unit *coming from independent sample preparations*.

The analytical sequence shall be communicated with the sample dispatch

The minimum of sample to be used is 2 g.

One dry mass determination from each unit shall be performed, i.e. in total 4 dry mass determinations. To determine dry mass, accurately weigh an aliquot of at +/- 2 g on an analytical sample in oven atmospheric balance and dry the an at pressure, at 102 °C ± 1 °C, until constant mass is attained. Weighing of the samples for dry mass determination and weighing for the analysis shall be done at the same time to avoid differences due to possible take up of moisture by the material

The deadline for delivery of result is one month after sample dispatch.

The measurements shall be performed preferably in 2019 with the dispatch date to be agreed upon.

1 Report

The report(s) shall comprise:

- a brief description of the method(s),
- calibration(s) and calibrators traceability
- brief description of the QA measures: quality charts, repeatability, expanded uncertainty.
- For each material/analyte 12 individual results expressed with their expanded uncertainty in µg/kg corrected to dry mass. All results must be traceable to the sample identification number and to the date of the analyses
- the results of the dry mass determinations,

The materials can be analysed with other materials without impeding the independence of results for the individual materials.

The signed pdf report might be sent by email to JRC-RM-STABILITY@ec.europa.eu.

Alternatively a signed report in paper can be sent to European Commission Directorate General Joint Research Centre For the attention of: Mrs Francine Vanderveken Unit F.6 Reference Materials Retieseweg 111 2440 Geel Belgium

| Analyte (target concentration) | Method | LOQ (µg/kg) | Average Repeatability (%) | Average expanded uncertainty* (%) |
|--------------------------------------|--------|----------------|---------------------------------|---|
| HCB (1-40 µg/kg) | Хххх | Хххх | Хххх | Хххх |
| p,p'-DDE (6-50 µg/kg) | Xxxx | Xxxx | Xxxx | Хххх |
| beta-HCH (12 µg/kg) | Xxxx | Xxxx | Xxxx | Хххх |
| beta-HEPO (32 µg/kg) | Xxxx | Xxxx | Xxxx | Хххх |
| Dieldrin (36 µg/kg) | Xxxx | Xxxx | Xxxx | Хххх |
| Endrin (6 µg/kg) | Xxxx | Хххх | Хххх | Хххх |
| р,р'-DDT (69 µg/kg) | Xxxx | Xxxx | Xxxx | Xxxx |

To be specified together with the quotation:

* Expanded uncertainty for an average of 6 results

Is the laboratory accredited or registered for a QM scheme? (Y/N)? YES

also for this type of measurement (Y/N) YES