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ANALYSIS OF GLYPHOSATE ON FOOD FROM ANIMAL ORIGIN

Nuria Cortés-Francisco¹, Ana Lucía Valdéz¹, Josep Calderón¹

¹Laboratori de l'Agència de Salut Pública de Barcelona, Barcelona, Spain

Glyphosate is currently approved in the EU. The approval expires on 15 December 2033. Therefore, glyphosate can be used as an active substance in Plant Protection Products [1].

It is included in the coordinated multiannual control programme of the Union to ensure compliance with maximum residue levels of pesticides and to assess the consumer exposure to pesticide residues in and on food of plant and animal origin [2].

Based on this regulation, glyphosate should be monitored in food of animal origin, such as poultry fat, bovine fat, cow's milk, bovine liver, chicken eggs and swine fat. For all these food commodities a maximum residue level (MRL) of 0.05 mg/Kg is set [3].

A simple and rapid method has been developed for analysis of glyphosate in food commodities of animal origin. The method combines an effective extraction, with occasionally specific clean-up steps depending on the matrix.

Guidance concerning 'Analytical quality control and validation procedures for pesticide residues analysis in food and feed' is included in the SANTE 11312/2021 v2 [4]. Following European legislation, results of the analysis of foodstuff must be released under ISO/IEC 17025 accreditation. The current method has been validated and accredited.

In the present work, the method developed in the Laboratory of Public Health Agency of Barcelona for the determination of glyphosate in food from animal origin will be shown.

References

1. https://ec.europa.eu/food/plant/pesticides/glyphosate_en
2. Commission Implementing Regulation (EU) 2023/731 of 3 April 2023 concerning a coordinated multiannual control programme of the Union for 2024, 2025 and 2026 to ensure