

United States Department of Agriculture

Food Safety Inspection Service Office of Public Health Science Laboratory Quality Assurance, Response and Coordination Staff 950 College Station Rd.

Athens, GA 30605

Laboratory Guidebook Notice of Change

New, revised, or archived: CLG-AMG4 Appendix 1.00

Title: Flow Chart Specific for FSIS Laboratory Screening for Aminoglycosides by

UHPLC-MS-MS

Effective Date: 02/28/23

Description and purpose of change: None

by UHPLC-MS-MS Receive food products from establishments Business **Acronym Table** Days 12 Prepare homogenized samples for muscle tissues 1. QC = Quality Control Sample (sample) Arrives at Weigh homogenized muscle for chemical residue FSL for 2. MLA = Minimum Level of analysis Residue **Applicability** Extraction 3. Sample = tissue and QCs and Analysis 4. UHPLC-MS/MS = Ultra Extract aminoglycosides residue with solvent High Liquid Chromatography-Mass Analyze with LC-MS-MS (up to 16 hours) Spectrometry If estimated residue level is Business Residue results are compared to FSIS's MLA Day 3 less than MLA Process Data If residue estimated level is greater than or equal to and Report **MLA** Results (-)Not detected (+)Presumptive positive Business Prepare tissue, extract and analyze samples to Residue without a tolerance Days 4 5 confirm or quantify presumptive positive residue (Confirmation) Additional Analysis for If residue If residue Confirmation Residue with tolerance and confirms as confirms as (Quantitation) Quantitation positive negative Business (+) (-)If concentration Days 67 Residue detected, Not detected found is less than Not detected violation **MLA** Process Data **Definition Table** If concentration is and Report greater than or The MLA is the minimum level at Results Residue detected, equal to MLA but non-violative which a method has been less than successfully validated for a residue in tolerance a given matrix. The tolerance level is established by (+) the FDA in meat, and poultry If concentration is Residue detected. products for many veterinary drugs greater than violation which, can be found in Title 40 of the tolerance Code of Federal Regulations (CFR). If additional testing must be performed at a FSL other than the one that originally received the sample, a portion of the sample is shipped to the appropriate FSL for confirmation and quantitation. Confirmation and quantitation steps in the blue background require different methods.

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