



Canadian Food  
Inspection Agency

Agence canadienne  
d'inspection des aliments

## Canadian Food Inspection Agency



### **Our vision:**

To excel as a science-based regulator, trusted and respected by Canadians and the international community.

### **Our mission:**

Dedicated to safeguarding food, animals and plants, which enhances the health and well-being of Canada's people, environment and economy.

## ***Chemical Contaminants and Residues in Food Community***

### ***Metals Sub-group SLV Protocol***

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## SLV Importance

- Needed to maintain accreditation (ISO-17025)
- Satisfy trading partners
- Codex Alimentarius Commission guidelines – labs involved in import/export testing of foods should use validated methods
- Ensure method is fit for its intended purpose
- Needed prior to method going through AOAC collaborative study



## Metals SLV Protocol

- Identified need for the Metals sub-group
- Protocol will be used to validate methods selected by the group as “methods of interest”
- Goal is to develop an SLV protocol that can be used by all members of the group
- Used guidelines established by Codex, IUPAC, ISO, AOAC, etc.



# Components of Metals SLV Protocol

- User-friendly
- Latest definitions
- Adaptable to all situations in ‘metals’ field
  - Purpose of method to assess for compliance?
  - Purpose of method to achieve lowest possible detection limit?
  - Method for single or multi-element determinations?
  - Can the analyst obtain blank material to conduct validation studies?
  - Speciation?
- Include a practical example of an SLV experimental plan



# Metals SLV Format

- Introduction
  - Explanation of method validation vs. method development
  - Codex, ISO, IUPAC guidelines of SLV
  - Planning of validation experimental design
  - Aim of the SLV
- Definitions
  - Latest terminology
- Technical guidelines and approaches
  - Information on how to evaluate method performance characteristics
- Example of experimental validation plan
- References



## Next Steps for Metals SLV

- To get members of the group to read and provide feedback on SLV
- Determine if metals sub-group protocol is similar/different to other sub-groups SLV protocol
- Group needs to discuss how we should approach certain performance characteristics (LOD/LOQ, etc.)
- Have SLV adopted by AOAC and available for all to use as a guidance document

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