CODEX ALIMENTARIUS COMMISSION

Food and Agriculture Organization of the United Nations

World Health Organization

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Agenda Item 3 **MAS44/CRD06**

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ORIGINAL LANGUAGE ONLY

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON METHODS OF ANALYSIS AND SAMPLING

44th Session

Virtual

5 – 8 May and 14 May 2025

PROPOSAL FOR THE AMENDMENT AND DEVELOPMENT OF NUMERIC PERFORMANCE CRITERIA FOR FISH AND FISHERY PRODUCTS

(Prepared by Norway in consultation with the Codex Secretariat)

Amendment of numeric performance criteria for fish sauce

1. Norway reviewed the amendments that were made to the *Recommended methods of analysis and sampling* (CXS 234-1999) following the adoption and consequential revocation of methods of analysis and performance criteria in relation to methods for provisions in fish and fishery product standards by CAC47 (2024).

2. In doing so, Norway would like to propose an amendment to the numeric performance criteria for the determination of sodium chloride and salt determined as chloride expressed as sodium chloride in fish sauce.

3. For the minimum applicable range, Norway would like to propose including the upper limit of the range. Additionally, to enhance clarity that this is a minimum limit, we suggest adding the word 'From'.

4. This proposal is detailed in Appendix I of this document.

Development of numeric performance criteria for salted Atlantic herring and salted sprat; salted fish and dried salted fish of the Gadidae family of fishes; and sturgeon caviar

5. Norway also notes that CCMAS has been invited to consider developing numeric performance criteria for salted Atlantic herring and salted sprat, salted fish and dried salted fish of the Gadidae family of fishes; and sturgeon caviar.[1]

6. Norway has therefore proposed numeric performance criteria for these commodities, for consideration by CCMAS44, in Appendix II of this document.

Recommendation

7. CCMAS44 is invited to review the numeric performance criteria in Appendices I and II, with a view to recommend their endorsement and subsequent adoption by CAC.

[1] CX/MAS 25/44/3-Add.1, paragraph 5

Appendix I

Amendments to numeric performance criteria in fish sauce proposed for consideration by CCMAS44

Note: Amendments are indicated in **bold,** ~~strikethrough~~ and/or underline. The amendments indicated in the columns "Examples of applicable methods that meet the criteria" and "Principle" do not need to be endorsed by CCMAS and are provided for information only.

Commodity	Provision	ML (%)	Min. Appl. Range (%)	LOD (%)	LOQ (%)	Precision (RSD_R) (%) No more than	Recovery (%)	Examples of applicable methods that meet the criteria	Principle
Fish Sauce	Sodium chloride and Salt determined as Chloride expressed as Sodium chloride	~~20 (NaCl) Minimum limit~~ **From 20 (NaCl)** **From** 12 (Cl^-)	18 **- 22** 11 **- 13**	2.0 1.2	4.0 2.4	5.1 5.5	98-102	NMKL 178 AOAC 971.27 AOAC 937.09 AOAC 976.18	Potentiometric titration Potentiometric titration Titration **Potentiometric** ~~T~~**t**itration

Appendix II

New numeric performance criteria* proposed for consideration by CCMAS44

Commodity	Provision	ML (%)	Min. Appl. Range (%)	LOD (%)	LOQ (%)	Precision (RSD_R) (%) No more than	Recovery (%)	Examples of applicable methods that meet the criteria	Principle
Salted Atlantic herring and salted sprat	Sodium chloride and Salt determined as Chloride expressed as Sodium chloride	From 1 to 20 (NaCl)	0.9 – 22	0.1	0.2	8.0	97-103	NMKL 178 AOAC 971.27 AOAC 976.18 AOAC 937.09	Potentiometric titration Potentiometric titration Potentiometric titration Titration
		From 0.6 to 12 (Cl^-)	0.5 - 13	0.06	0.12	8.6			
Salted Fish and dried salted fish of Gadidae family of fishes		From 12 (NaCl)	11 – 13	1.2	2.4	5.5	98-102		
		From 7.3 (Cl^-)	6.8 – 8.1	0.8	1.5	5.9			
Sturgeon Caviar		From 3 to 5 (NaCl)	2.7 -5.5	0.3	0.6	6.8	97-103		
		From 1.8 to 3.0 (Cl^-)	1.7 – 3.4	0.2	0.4	7.3			

* The highest value in the Min. Appl. Range is calculated by using the highest value of the ML, while the rest i.e. the lowest value in the Min. Appl. Range, LOD, LOQ, Precision, and Recovery are calculated based on the lowest value of the ML.