هيئة التقييس لدول مجلس التعاون لدول الخليج العربية GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع مواصفة نهائي Final Draft of Standard FDS

إعداد اللجنة الخليجية رقم TC05

Prepared by GSO Technical Committee No. TC05

GSO 05 FDS/2020

كافيار سمك الحفش Sturgeon Caviar

ICS: 67.120.30

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Foreword

GCC Standardization Organization (GSO) is a regional Organization which consists of the National Standards Bodies of GCC member States. One of GSO main functions is to issue Gulf Standards /Technical regulations through specialized technical committees (TCs).

GSO through the technical program of committee TC No (5) " GSO Technical Committee for Food and Agricultural Products " has updated the GSO Technical regulation No.: GSO 1360/2014 "STURGEON CAVIAR" The Draft Technical regulation has been prepared by KUWAIT.

This Technical regulation has been approved by GSO Board of Directors in its meeting No.(), held on // h(//).

The approved standard will replace and supersede the standard No. GSO1360/2014.

تقديم

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية هيئة إقليمية تضم في عضويتها أجهزة التقييس الوطنية في الدول الأعضاء، ومن مهام الهيئة إعداد المواصفات القياسية واللوائح الفنية الخليجية بواسطة لجان فنية متخصصة.

قرر مجلس إدارة هيئة التقييس لدول مجلس التعاون لدول الخليج العربية في اجتماعه رقم () الذي عقد بتاريخ / م الموافق / م اعتماد تحديث اللائحة الفنية الخليجية رقم GSO بتاريخ / م الموافق / م الموافق / م العربية والانجليزية) ضمن برنامج عمل اللجنة الفنية الخليجية رقم TC05 "اللجنة الفنية الخليجية للمواصفات الغذائية والزراعية" المدرجة في خطة دولة الكويت.

ويعتبر النص (الإنجليزي) هو المرجع الأساسي في حال وجود اختلاف بين النصين.

Sturgeon Caviar

1. SCOPE

This standard applies to granular sturgeon caviar of the fish of the Acipenseridae family.

2. COMPLEMENTARY REFERENCES.

- 2.1 GSO 9 "Labeling of Prepackaged Foods".
- 2.2 GSO 21 "Hygienic Regulations for Food Plants & Their Personnel".
- 2.3 GSO 150 "Expiration Periods Food Products Part 1."
- 2.4 GSO 839 "Food packages- Part 1: General requirements".
- 2.5 GSO 988 " Limits of radioactivity levels permitted in food stuffs- Part 1".
- 2.6 GSO 998 " Methods for the detection of permissible radionuclides limits in food- Part 1: Gamma spectrometry analysis: A, Cs 134, Cs 137".
- 2.7 GSO 1863 "Food packages- Part 2: Plastic packages- General requirements".
- 2.8 GSO/CAC/MRL 2 Maximum Residue Limits for Veterinary Drugs in Food
- 2.9 GSO/CAC 193 " General Standard for contaminants and toxins in food and feed".
- 2.10 GSO 589 "Methods for physical and chemical Analysis of Fish, Shellfish and Their products".
- 2.11 GSO 655 "Methods for Microbiological Examination of Meat, Fish,".
- 2.12 GSO 1791 " Three piece steel round cans used for canning food stuffs"
- 2.13 GSO 1881 "Methods of Sampling for Fish, Shellfish and Their Products".
- 2.14 GSO 20 "Methods for the determination of contaminating metallic elements in food stuffs".
- 2.15 GSO1026 "Code of Hygienic Practice for Preparation, Transportation".
- 2.16 GSO 323 "Requirements for Transportation and Storing Chilled and Frozen Foods".

- 2.17 GSO 1931 "Halal Food Part (1): General Requirement".
- 2.18 GSO 1843 "Food Grade Salt".
- 2.19 GSO 1694 "GENERAL PRINCIPLES OF FOOD HYGIENE".
- 2.20 GSO 22 "Methods of Testing Colouring Matter Used in Foodstuffs".
- 2.21 GSO 1804 " Sensory analysis of foods part2 General requirements".
- 2.22 GSO 1805-3"Sensory analysis of foods part3".
- 2.23 GSO 1016 "Microbiological Criteria for Foodstuffs Part 1".
- 2.24 GSO 2500 "General Standard for food additives".
- 2.25 GSO 2369 " Methods for the determination of fungi toxins in food and animal feeds".
- 2.26 GSO382 " Maximum limits for pesticide residues in food ".

3 DESCRIPTION.

3.1 **DEFINITIONS**.

The following definitions are used in this standard:

- 3.1.1 **Fish eggs:** non-ovulated eggs separated from the connective tissue of ovaries. Ovulated eggs may be used from aquacultured sturgeons.
- 3.1.2 **Caviar:** the product made from fish eggs of the *Acipenseridae* family by treating with food grade salt.

3.2 **PRODUCT DEFINITION.**

The product is prepared from fish eggs of sturgeon fishes belonging to the *Acipenseridae* family (*Acipenser*, *Huso*, *Pseudoscaphirhynchus* and *Scaphirhynchus* and hybrid species of these genera). The eggs are of about one size and evenly and characteristically coloured according to the species used. Colour can vary from light grey to black or from light yellow to yellowish grey.

Brownish and greenish shades are permissible. The product is made with addition and of salt and is intended for direct human consumption. The salt content of the product is equal or above 3g/100g and below or equal to 5g/100g in the end product.

3.3 **PROCESS DEFINITION.**

3.3.1 The product, after suitable preliminary preparation of the caviar, shall be subject to treatment or conditions sufficient to prevent the growth of spore and non-spore forming pathogenic microorganisms and shall comply with the conditions laid down hereafter. Ovulated eggs are harvested after hormonal induction of ovulation of the female. The eggs are appropriately treated to remove adhesive layer and to harden the shell. If hormones are used to produce ovulated eggs, they should be approved for use by the competent authority having jurisdiction.

The product shall be prepared by salting fish eggs with food grade salt. During packaging, storage and retail, the product temperatures is between +2 and +4° C. Freezing as well as frozen storage of caviar in not permitted unless the deterioration of quality is avoided.

- 3.3.2 In addition to the requirements of general standard mention in section 2.4,2.7 &2.12, The product shall be packed in:
 - Metal tins coated inside with stable food lacquer or enamel;
 - Glass jars;
 - Other suitable food-grade containers.

Re-packaging of the product from large to smaller containers under controlled conditions which maintain the quality and safety of the product shall be permitted. No mixing of caviar from different sturgeon species or lots shall be permitted.

4 ESSENTIAL COMPOSITION AND QUALITY FACTORS

4.1 RAW MATERIAL.

Caviar shall be prepared from fish eggs extracted from sound and wholesome sturgeons of biological species of the genera described in Section 3.2, which are of a quality fit to be sold fresh for human consumption.

4.2 **SALT**

Salt shall be of food grade quality and conform to all applicable Codex Standards.

4.3 **FINAL PRODUCT**.

The product shall meet the requirements of the present Standard, when a lot examined in accordance with the **requirements** described in Section 10 complies with the provisions set out in Section 9.

The product shall be examined by the methods given in Section 8.

5 FOOD ADDITIVES.

Acidity regulators, antioxidants and preservatives listed General Standard for Food Additives mentioned in section 2.24, are acceptable for use in foods conforming to this standard.

6 CONTAMINANTS.

- 6.1 The products covered by this Standard shall comply with the Maximum Levels of the General Standard for Contaminants and Toxins in Food and Feed and the maximum residue limits for pesticides and veterinary drugs mentioned in section 2.9, the following specific provisions apply:
- 6.2 For caviar obtained from ovulated eggs, the treatment of the fish (e.g. with hormones) and the subsequent level of residues in the final product shall be in conformity with the relevant provisions in subsection 6.3.2 Veterinary Drugs of the Code Of Practice for Fish and Fishery Products in particular regarding the compliance with the MRL and the withdrawal time.

7 HYGIENE.

- 7.1 It is recommended that the product covered by the provisions of this standard be prepared and handled in accordance with the appropriate sections of the General Principles of Food Hygiene, in section 2.2.
- 7.2 The products should comply with any microbiological criteria established in accordance with the Principles and Guidelines for the Establishment and Application of Microbiological Criteria Related to Foods. Section 2.23
- 7.3 The product shall not contain any other substance in amounts which may present a hazard to health in accordance with gulf standards.
- 7.4 The final product shall be free from any foreign material that poses a threat to human health.

8. LABELLING

In addition to the provisions of Gulf Standard for the Labelling of Prepackaged Foods, section 2.1 the following specific provisions apply:

8.1 Name of the food

- 8.1.1 For the Acipenseridae family, the name of the food shall be "caviar" or "caviar" completed with the usual name (Beluga for Huso huso, Ossetra for Acipenser guldenstaedtii and Acipenser persicus, Sevruga for Acipenser stellatus), in accordance with the law and custom of the country in which the product is sold, in a manner not to mislead the consumer.
- 8.1.2 For sturgeons having no common names, the name may be supplemented with the identification code or the scientific name of the species in accordance with Annex A.
- 8.1.3 For hybrids the common name shall be supplemented with the word hybrid, and the parent sturgeon species may be shown according to Annex A.
- 8.1.4 For caviar obtained from ovulated eggs, the product name shall be "caviar from ovulated eggs". The labelling shall be written in such a way as to avoid any risk of misleading consumers on the nature of the product.

8.2 Storage instruction

The labelling shall include terms to indicate that the product shall be stored under appropriate time/temperature conditions.

8.3 Repackaging

In case of repackaging of the product the facility registration code shall be identified.

8.4 Labelling of non-retail containers

Each primary container shall be labelled with the number markings of the lot and the species. Information specified above shall be given either on the container or in accompanying documents, except that the name of the food, lot identification, and the name and address as well as storage instructions shall always appear on the container. However, lot identification as well as the name and address may be replaced by an identification mark, provided that such a mark is clearly identifiable with the accompanying documents.

9. SAMPLING, EXAMINATION AND ANALYSES

9.1 Sampling

- 9.1.1 Sampling of lots for examination of the product shall be in accordance with the General Guidelines on Sampling, section 2.13. A sample unit is the primary container.
- 9.1.2 Sampling of lots for examination of net weight shall be carried out in accordance with an appropriate sampling plan meeting the criteria established by the Gulf Standards.
- 9.1.3 Sampling of lots for pathogenic microorganisms and parasites shall be in accordance with the Principles and Guidelines for the Establishment and Application of Microbiological Criteria Related to Foods, section 2.11&2.23.

9.2 Sensory examination

Samples taken for sensory and physical/chemical examination shall be assessed by person trained in such examination and in accordance with the Guidelines for the Sensory Evaluation of Fish and Shellfish in Laboratories mentioned in section 2.21 &2.22.

9.3 Determination of net weight

The net weight (excluding packaging material) of each sample unit in the sample lot shall be determined by deducting the weight of the empty container from the total weight.

9.4 Determination of salt content

The determination of salt content is performed according to the method described in the Standard for Salted Fish and Dried Salted Fish of the Gadidae Family of Fishes.

10. DEFINITION OF DEFECTS

The sample unit shall be considered as defective when it exhibits any of the properties defined in Sections 10.1- 10.4.

10.1 Foreign matter

The presence in the sample unit of any matter which has not been derived from sturgeon eggs, does not pose a threat to human health, and is readily recognized without magnification; or is present at a level determined by any method

including magnification, that indicates non-compliance with good manufacturing practices and sanitation practices.

10.2 Odour and flavour

The product affected by persistent and distinct objectionable odour and/or flavour indicative of decomposition, oxidation, or taste of feed (in fish reared in aquaculture), or contamination by foreign substances (such as fuel oil).

10.3 Consistency and condition

- The presence of hard cover of caviar grains that is not easily chewable or tenuous.
- The breaking up of the outer membranes when attempting to separate the grains.
- The Presence of broken eggs or fluid.

10.4 Objectionable matter

The presence of remnants of membranes and/or secreted fat in finished caviar.

11. LOT ACCEPTANCE

A lot shall be considered as meeting the requirements of this standard when:

1. The total number of defectives as classified according to Section 9 does not exceed the acceptable number of the appropriate sampling plan given in the General Guidelines on Sampling mentioned in section 2.13.

- 2. The average net weight of all sample units is not less than the declared weight, provided no individual container is less than 95% of the declared weight.
- 3. The food additives, contaminants, hygiene and labelling requirements of Sections 5, 6, 7 and 8 are met.

ANNEX 1

Table .1 - IDENTIFICATION CODES OF STURGEON SPECIES

Denomination of sturgeon fishes - Scientific names	Code
Huso huso	HUS
Huso dauricus	DAU
Acipenser naccari	NAC
Acipenser transmontanus	TRA
Acipenser schrenkii	SCH
Acipenser sturio	STU
Acipenser baerii baikalensis	BAI
Acipenser sinensis	SIN
Acipenser dabryanus	DAB
Acipenser persicus	PER
Acipenser brevirostrum	BVI
Acipenser fulvescens	FUL
Acipenser oxyrhynchus	OXY
Acipenser oxyrhynchus desotoi	DES
Acipenser gueldenstaedtii	GUE
Acipenser medirostris	MED
Acipenser baerii	BAE
Acipenser micadoi	MIK
Acipenser stellatus	STE

Acipenser ruthenus	RUT
Acipenser nudiventris	NUD
Pseudoscaphirhynchus fedtschenkoi	FED
Pseudoscaphirhynchus hermanni	<u>HER</u>
Pseudoscaphirhynchus kaufmanni	KAU
Scaphirhynchus platorhynchus	<u>PLA</u>
Scaphirhynchus albus suttkusi	ALB
Scaphirhynchus suttkus	SUS
Hybrids: female species code x male species code	YYY x
	XXX