

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

**Final : Draft**

**GSO TC5/SC2 / FDS ..../2013**

**الحدود القصوى لبقايا المبيدات والملوثات في الأغذية العضوية**  
**Maximum limits for pesticide residues and Contaminants In**  
**Organic Food**

Prepared by  
Gulf Technical subcommittee for Food additives and contaminants

This document is a draft GSO Standard circulated for comments. It is, therefore, subject to alteration and modification and may not be referred to as a GSO Standard until approved by GSO.

## تقديم

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية هيئة إقليمية تضم في عضويتها الأجهزة الوطنية للمواصفات والمقاييس في دول الخليج العربية ، ومن مهام الهيئة إعداد المواصفات القياسية الخليجية بواسطة لجان فنية متخصصة.

وقد قامت هيئة التقييس لدول مجلس التعاون لدول الخليج العربية ضمن برنامج عمل اللجنة الفنية رقم (TC5/SC2) " اللجنة الفنية الفرعية الخليجية للمواد المضافة وملوثات الأغذية " بإعداد هذه المواصفة القياسية الخليجية من قبل (الجمهورية اليمنية) وقد تم إعداد المشروع بعد استعراض المواصفات القياسية العربية والأجنبية والدولية والمؤلفات المرجعية ذات الصلة.

وقد اعتمدت هذه المواصفة كمواصفة قياسية خليجية في اجتماع مجلس إدارة الهيئة رقم ( ) ، الذي عقد بتاريخ / / هـ ، الموافق / / م .

## 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 TC5/SC2 "Technical *Gulf subcommittee for food additives and Contaminants* " has prepared this Standard. The Draft has been prepared by (Republic of Yemen).

The draft Standard has been prepared based on relevant ADMO, International and National foreign Standards and references.

This standard has been approved as a Gulf Standard by GSO Board of Directors in its meeting No.( ),held on/ / H , / / G.

**Maximum limits for pesticide residues and Contaminants In Organic Food****1 Scope**

This Gulf standard provides maximum residue limits of pesticides and contaminants are allowed in organic food.

**2 Complementary Standards**

- 2.1 GSO CAC/GL 32 " Production, Processing, Labeling and Marketing of Organically Produced Foods".
- 2.2 GSO 382" Maximum limits for pesticide residues in agricultural food product".
- 2.3 GSO CAC 193" General standard for contaminants and toxins".
- 2.4 Standard will adopted by GSO Sampling for " Determination of Pesticide Residues in Food and Agricultural Products ".

**3 Definitions**

- 3.1 It shall be considered definitions are mentioned in Gulf standard is mentioned in sub clause (2.1).
- 3.2 Pesticide residues  
Residues including active substances and products of metabolic processes and / or products cracking or reaction products of active substances used for plant protection products.

**4 The limits and calculation method**

- 4.1 According for Gulf standard for is mentioned in sub clause (2.1) Prohibits the use of pesticides in organic production, but that in the case of the effects as a result of pollution it shall not exceed the maximum permitted for any pesticide residue in the organic food 0.01 mg / kg and taking into the way account is mentioned in sub clause (4.3).  
That these pesticides are permitted in accordance with Gulf standards and in the case of pesticides, which have a limit less than 0.01 mg/kg in the previous references, it shall be taken for at least.  
And when the maximum limit of pesticides (0.01) mg/kg, it shall be notified of inspection and certification to take necessary procedures in this regard
- 4.2 It does not permit write down the phrase" organic food " on any product with more than to pesticide maximum in side limit (0.01) mg/kg that if the product contains three or more pesticides and all within maximum limit (0.01) mg/kg is not written by the phrase "organic food" .

#### 4.3 Calculation Method

##### 4.3.1 In the fresh or raw products

Apply the following equation

$$(\text{Reading laboratory} + 50\% \times \text{Reading laboratory}) \geq 0.01 \leq (\text{laboratory reading} - 50\% \times \text{Reading laboratory})$$

Example:

Reading laboratory for fresh product (e.g. cucumber) for pesticide residue is 0.025 mg / kg for the application of the equation .

$$(0.025 + 50\% \times 0.025) \geq 0.01 \leq (0.025 - 50\% \times 0.025)$$

$$0.0375 \geq 0.01 \leq 0.0125$$

Result:

Cucumber isn't considered an organic product option in this case because the rate of pesticide residue  $\pm 50\%$  more than 0.01 mg/kg

##### 4.3.2 Dried, diluted or concentrated products .

Takes into the following:

a. It shall be taking the dehydration factor, dilution factor and concentration coefficient factor also according for the tables so special .

Example:

Dried basil Sample determined certain pesticide residue were it found 0.07 mg / kg and that's where dehydration factor for basil plants is 7 so in this case  $7 \div 0.07 = 0.01$  mg / kg.

b. Apply the equation

$$(\text{Reading laboratory} + 50\% \times \text{Reading laboratory}) \geq 0.01 \leq (\text{laboratory reading} - 50\% \times \text{laboratory reading})$$

$$(0.01 + 50\% \times 0.01) \geq 0.01 \leq (0.01 - 50\% \times 0.01)$$

$$0.015 \geq 0.01 \leq 0.005$$

#### 4.4 Residues of contaminants

It shall not be exceed maximum limits permitted for contaminants in the organic product as limits are mentioned in Gulf standard in sub clause (2.2) and taking into any amendments there to it.

### 5 Testing Methods

Pesticide residues and contaminants is determined in organic food in laboratories accredited according with the test methods are mentioned in Gulf standard adopted in this regard.

**Reference**

- 1- Egyptian Standard No (7333/2011) "Organic Products Maximum Limits of Pesticides Residues and Heavy Metals ."
- 2- CAC Standard 193 " General Standard for Contaminates and Toxins".