

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-20048-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 21.02.2019 to 13.07.2020

Date of issue: 21.02.2019

Holder of certificate:

**Azersun Holding Ltd**  
**Testing Laboratory**  
**Heydar Aliyev ave. 92, Baku City, Azerbaijan**

Tests in the fields:

**selected physical, physico-chemical analyses of fruit and vegetable products, of animal and vegetable fats and oils and water; selected microbiological analyses of food, animal feeding stuffs and water**

Abbreviations used: see last page

### **1 Selected physical, physico-chemical analyses of fruit and vegetable products**

#### **1.1 Determination of arsenic and mercury in fruit and vegetable products using atomic absorption spectrometry**

GOST 31671-2012  
(EN 13805:2002)  
2012-10                      Foodstuffs. Determination of trace elements; Preparation of samples by pressure digestion (ISO 13805:2002, MOD)  
*(here only in fruit and vegetable products)*

EN 13806  
2002-11                      Foodstuffs; Determination of trace elements;  
Determination of mercury by cold-vapour atomic absorption spectrometry (CVAAS) after pressure digestion  
*(here only in fruit and vegetable products)*

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EN 14627  
2005-07  
Foodstuffs; Determination of trace elements; Determination of total arsenic and selenium by hydride generation atomic absorption spectrometry (HGAAS) after pressure digestion (*here only for the determination of total arsenic in fruit and vegetable products*)

ISO 6561-2  
2005-02  
Fruits, vegetable and derived products. Determination of cadmium content –  
Method using flame atomic absorption

**1.2 Determination of titratable acidity, pH and soluble solids (refractometric method) in fruit and vegetable products**

ISO 750  
1998-08  
Fruit and vegetable products; Determination of titratable acidity

ISO 1842  
1991-12  
Fruit and vegetable products; Determination of pH

ISO 2173  
2003-12  
Fruit and vegetable products; Determination of soluble solids –  
Refractometric method  
(*Modification: Use of an automatic refractometer with temperature compensation*)

**1.3 Determination of free fatty acid content, peroxide value, refractive index, volatiles and moisture in fats and oils**

ISO 660  
2009-06  
Animal and vegetable fats and oils; Determination of acid value and acidity

ISO 662  
1998-09  
Animal and vegetable fats and oils; Determination of moisture and volatile matter content

ISO 663  
2007-03  
Animal and vegetable fats and oils; Determination of insoluble impurities content

ISO 3960  
2007-07  
Animal and vegetable fats and oils; Determination of peroxide value – Jodometric (visual) endpoint determination

ISO 6320  
2000-03  
Animal and vegetable fats and oils; Determination of refractive index

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GOST 31665-2012  
2013-12                      Vegetable oils and animal fats. Preparation of methyl esters of fatty acids (ISO 12966-2:2011, NEQ)

ISO 12966-4  
2015-06                      Animal and vegetable fats and oils –  
Gas chromatography of fatty acid methyl esters –  
Part 4: Determination by capillary gas chromatography

**1.4      Determination of aflatoxin B1 and the total content of aflatoxins B1, B2, G1 and G2 in cereals, nuts and derived products**

ISO 16050  
2003-09                      Determination of aflatoxin B1 and the total content of aflatoxins B1, B2, G1 and G2 in cereals, nuts and derived products –  
High-performance liquid chromatographic method

**1.5      Determination of pH, electrical conductivity, chloride content and hardness in water**

ISO 7888  
1985-05                      Water quality –  
Determination of electrical conductivity

ISO 9297  
1989-11                      Drinking water. Methods for determination of chloride content

GOST 31954-2012  
2014-01                      Drinking water. Methods of hardness determination –  
EDTA titrimetric method

ISO 10523  
2008-12                      Water quality –  
Determination of pH

**2              Selected microbiological analyses of food and animal feeding stuffs and water**

ISO 4833  
2013-12                      Microbiology of food and animal feeding stuffs –  
Horizontal method for the enumeration of microorganisms –  
Colony-count technique at 30°C

ISO 21527-1  
2008-07                      Microbiology of food and animal feeding stuffs –  
Horizontal method for the enumeration of yeasts and moulds –  
Colony count technique in products with water activity greater  
than 0,95

ISO 4832  
2006-02                      Microbiology of food and animal feeding stuffs –  
Horizontal method for the enumeration of coliforms –  
Colony-count technique

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T-142  
2018-11                      Drinking water. Colony count of mesophilic aerobic and facultative anaerobic microorganisms.

**Abbreviations used:**

DIN	Deutsches Institut für Normung e. V. (German Institute for Standardization)
EN	Europäische Norm (European Standard)
GOST	State Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
T-xxx	Inhouse method of Azersun Holding Ltd, Testing Laboratory