



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

FDA Laboratory, LLC
Bld. #1, 6th Street
Nor Gyugh, Kotayk, Republic of Armenia

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 15 February 2025

Certificate Number: AT-1919



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

FDA Laboratory, LLC

Bld.#1, 6th Street
Nor Gyugh, Kotayk, Republic of Armenia
Sona Simonyan +374 (0) 60460076
sona.simonyan@fdalab.am www.fdalab.am

TESTING

Valid to: **February 15, 2025**

Certificate Number: **AT-1919**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Alcohol strength by volume	OIV-MA-AS312-01B	Wine, Brandy, Alcohol beverages	Densitometry
Total Acidity	OIV-MA-AS313-01	Wine	Titration
Organic acids (tartaric, malic, lactic, citric)	OIV-MA-AS313-04	Wine, Juice, Fruit, Vegetable	HPLC UV detection
Ascorbic acid	OIV-MA-AS313-22	Wine, Juice, Fruit, Vegetable	HPLC UV detection
Sorbic acid	OIV-MA-AS313-20	Wine	HPLC UV detection
Sulfur Dioxide free and total	OIV-MA-AS323-04-B	Wine	Titration
pH	OIV-MA-AS313-15	Wine	Potentiometric
Volatile acidity	OIV-MA-AS313-02	Wine	Titration
Reducing substances	OIV-MA-AS311-01A	Wine	Titration

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Sugars (glucose, fructose, sucrose)	OIV-MA-AS311-03	Wine, Honey, Juice, Fruit	HPLC Refractometric detection
Copper	OIV-MA-AS322-06	Wine	Atomic Absorption Spectroscopy
Iron	OIV-MA-AS322-05A	Wine	Atomic Absorption Spectroscopy
Calcium	OIV-MA-AS322-04	Wine	Atomic Absorption Spectroscopy
Phthalates	GB/T 21911-2008 OIV-MA-AS323-10	Honey, Alcohol beverages	Gas Chromatography with Mass Spectrometry
Metals	ISO 15586-2003; GOST 31870-2012; GOST 26929-94; GOST 30178-96; GOST 51766-2001 GOST EN 14083-2013 GOST EN 14082-2014 GOST EN 14084-2014 GOST 31671-2012(EN 13805:2002)	Water & Food	Atomic Absorption Spectroscopy-Graphite Furnace
Mercury	ISO 12846-2012; MUK 4.1.1472-03 GOST R 53183-2008 GOST 33412-2015 GOST31671-2012(EN 13805:2002)	Water & Food	Atomic Absorption Spectroscopy-Cold Vapor
Sulfur Dioxide free and total	ISO 5522:1981; GOST 25555.5-2014	Food: Meat and meat product; fresh and dried fruits; vegetables and processed food; sugar; mustard; mushrooms; cereals; alcohol beverages; sweets	Titration

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Benzo(a)pyrene	ISO 17993:2002; GOST R 51650-2000; GOST 31860-2012	Food and water: Meat and meat products; milk and milk products; cereals, infant formula (baby food), oil	HPLC FLD detector
Organochlorine pesticides and polychlorinatedbiphenyls	ISO 6468-1996 (GOST 31858-2012); ISO 8260-2008; ISO 4389-2000; ISO 3890-1-2009; ISO 3890-2-2009; ISO 27108-2010; AST ISO 6468-2005; EN15662-2018; MU 2142-80; GOST 32308-2013; GOST 23452-2015; GOST 32122-2013; GOST 32181-2013, (ISO 4389-97); GOST 30349-96 STB EN 15662-2017	Water; meat and meat products; milk and milk products; food supplement; tobacco and tobacco products; fish and fish products; fruits, vegetables and their products; cereals; sugars; oil; infant formula (baby food); seeds; feed	Gas Chromatography with Mass Spectrometry
Anions (nitrite, nitrate, chloride, bromide, sulfate, phosphate, fluoride)	ISO 10304.1-2007; GOST EN 12014-2-2014; GB 5009.33-2016; MU 5048-89; GOST 29300-92; GOST 29299-92, (ISO 2918-75) GOST ISO 10304.1-2016	Water; meat and meat products; milk and milk products; fruits, vegetables and their products	Ion Chromatography
Cations (lithium, ammonium, sodium, potassium, calcium, magnesium, barium)	ISO 14911-98 GOST 33975-2016 AST ISO 14911-2019	Water; juice; alcohol beverages	Ion Chromatography
Tar	ISO 4387-2019 GOST 30571-2003 AST ISO 4387-2008	Tobacco / Cigarettes	Smoking Machine, Gas Chromatography
Water Content	ISO 10362-1-2019 GOST 30622.1-2003	Tobacco / Cigarettes	Gas Chromatography
Nicotine	ISO 10315-2021 AST 294-2008 GOST 30570-2015	Tobacco / Cigarettes	Gas Chromatography

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Carbon Monoxide	ISO 8454-2007 GOST 31630-2012 AST 325-2010	Tobacco / Cigarettes	Carbon Monoxide Analyzer
Total Fat	GOST 8756.21-89 ISO 7305-2019 AOAC 996.01-1996	Fruits, vegetables and derived products, cereals, honey	Extraction
Protein	ISO 16634-2-2016 ISO 16634-1-2008 ISO 20483-2013 ISO 1871-2009 AOAC 968.06-1969 AOAC 992.23-1998 DIN EN 12135-1997 GOST R ISO 16634-1-2011 AST ISO 16634.1-2013	Food and feed products	Elementary Analyze system
Total carbohydrate	AOAC 969.38-1969 AOAC 934.06-1996 GOST 28561-90 GOST 25555.4-91 ISO 5520-1981 AOAC 940.26 AOAC 923.03 DIN EN 1135-1994 ISO 2448-1998 GOST ISO 2448-2013 Food energy – methods of analysis and conversion factors ISSN 0254-4725	Fruits, vegetables and derived products, cereals, honey	Calculation according to FAO FOOD AND NUTRITION PAPER ISSN 0254-4725 point 2.3

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Energy value	FAO chapter 3: Calculation of the energy content of foods - energy conversion factors Code of Federal Regulations] Cite: 21cfr101.9] title 21--food and drugs chapter i--food and drug administration department of health and human services subchapter b - food for human consumption	Fruits, vegetables and derived products, cereals, honey	Calculation
Chemical - Drug			
Dissolution	In-house procedure based on: USP <711>; Eur. Ph. 2.9.3; Russian Ph. 13-1.2.1.0005.15	Pharmaceuticals and Related Products	Dissolution Apparatus
Disintegration	In-house procedure based on: USP <701>; Eur. Ph. 2.9.1; Russian Ph. 13-1.4.2.0013.15	Pharmaceuticals and Related Products	Disintegration Apparatus
Friability	In-house procedure based on: USP <1216>; Eur. Ph. 2.9.7; Russian Ph. 13-1.4.2.0004.15	Pharmaceuticals and Related Products	Friability Tester
Density	In-house procedure based on: USP <699>; Eur. Ph. 2.9.42 / 2.2.5 (relative density); Russian Ph. 13-1.2.1.0014.15	Pharmaceuticals and Related Products	Density
Loss on Drying	In-house procedure based on: USP <731>; Eur. Ph. 2.2.32	Pharmaceuticals and Related Products	Oven
pH	In-house procedure based on: USP <791>; Eur. Ph. 2.2.3; Russian Ph. 13-1.2.1.0004.15	Pharmaceuticals and Related Products	pH Meter

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Spectrophotometric Assays and Identification	In-house procedure based on: USP <851>; Eur. Ph. 2.2.25; Russian Ph. 13-2.1.1.0003.15	Pharmaceuticals and Related Products	UV-VIS Spectrophotometer
Chromatographic Assays, Identification, Related Compounds and Impurities	In-house procedure based on: USP <621>; Eur. Ph. 2.2.29; 2.2.46 Russian Ph. 13-1.2.1.20005.15	Pharmaceuticals and Related Products	HPLC

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<i>Listeria monocytogenes</i>	ISO 11290-1:2017 ISO 11290-2:2017	Meat, poultry, fish, egg, fruits, vegetables, dairy, infant formula	Plating / Biochemical Confirmation Qualitative & Quantitative
<i>Salmonella</i>	ISO 6579:2017 ISO 6579:2017/Amd.1:2020	Meat, poultry, fish, egg, fruits, vegetables, dairy, infant formula	Plating with conformation (Qualitative)
<i>Cronobacter spp.</i>	ISO 22964:2017	Milk, milk products, infant formula	Plating / Biochemical Confirmation (Qualitative)
Coliforms/ <i>E. coli</i>	ISO 9308-1:2014 ISO 9308-1:2014/Amd.1:2016	Water	Membrane Filtration
<i>Enterococci</i>	ISO7899-2:2000	Water	Membrane Filtration
<i>Pseudomonas aeruginosa</i>	ISO 16266:2006	Water	Membrane Filtration
Colony count 22 C / 37 C	ISO 6222:1999	Water	Plate Count
<i>Clostridium perfringens</i>	ISO 14189:2013	Water	Membrane Filtration
Sulfite Reducing Bacteria (<i>Clostridium spp.</i>)	ISO 6461/2-1986	Water	Membrane Filtration

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Coagulase-positive staphylococci (Staphylococcus aureus)	ISO 6888-3:2003; GOST 31746-2012	Meat, meat products; poultry; fish; milk, milk products; egg; bakery products, bread; fruits; vegetables; dairy, infant formula; food supplements, special food for pregnant women	Detection and enumeration by MPN method
Sulfite Reducing Bacteria (Clostridium spp.)	ISO 15213:2003; GOST 29185-2014	Meat, meat products; fish; fruits; vegetables, processed food	Plating with confirmation (Qualitative and Quantitative)
Coliforms	ISO 4831:2006	Meat, meat products; poultry; fish; milk, milk products; egg; bakery products, bread; fruits; vegetables; processed food, dairy, infant formula (baby food); food supplements; special food for pregnant women	Detection and enumeration by MPN method
Escherichia coli	ISO 16649-3:2015	Meat, meat products; poultry; fish; milk, milk products; egg; bakery products, bread; fruits; vegetables; processed food, dairy, infant formula (baby food); dietary supplements; special food for pregnant women	Detection and enumeration by MPN method

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1919.



R. Douglas Leonard Jr., VP, PILR SBU