

# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

# Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

#### ALS Group USA, Corp.

3337 Michelson Drive, Irvine, CA 92612

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

#### ISO/IEC 17025:2017

and the

ILAC G7:04/2021 Accreditation Requirements and Operating Criteria for Horseracing Laboratories

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

# Chemical Testing (As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

December 10, 2020

March 30, 2022

April 30, 2024

Revision Date:

Accreditation No.:

Certificate No.:

September 16, 2022

113426

L22-186-R1

Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: <a href="www.pjlabs.com">www.pjlabs.com</a>



Issue: 03/2022



# Certificate of Accreditation: Supplement

#### ALS Group USA, Corp.

3337 Michelson Drive, Irvine, CA 92612 Contact Name: Minh-Nguyet Hong Phone: 714-730-6239

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Chemical <sup>F</sup>	Biological Material	Specific Gravity	In-House Methods and Manufacturer's
			Instructions
			ILAC-G7:04/2021
			Refractometer
		Instrumental Screen	In-House Methods
			ILAC-G7:04/2021
			LC/MS
		Drug Confirmation	In-house Methods
			ILAC-G7:04/2021
			LC/MS
	Nutritional Supplements	Liquid Chromatography,	In-House Methods
		Various Detectors	HPLC
			UHPLC
		Instrumental Screen	In-House Methods
		G G	LC/MS
		Confirmation of Chemical	In-house Methods
	Dialine Water Contain	Identity	LC/MS
	Drinking Water System	Compounds of	NSF/ANSI/CAN 61 & 372, ICP-OES
	Components	Toxicological Concern	ICP-OES ICP/MS
			XRF
	Rubber, Plastic and Metal	Fungus Resistance Testing	MIL-STD-810 Method 508
	Components	Tungus Resistance Testing	RTCA/DO-160 Section 13
	Components		Fungus Chamber
	Toxic Chemical Elements	Mercury	EPA 245.1
	of Drinking Water	indically .	
	Metals and Trace		EPA 245.1
	Elements in Non-Potable		(1994 Rev. 3.0)
	Water	9	
	Inorganic Constituents in		EPA 7470 A
	Hazardous Waste		
	(Matrix Aqueous)		
	Inorganic Constituents in		EPA 7471 A
	Hazardous Waste		





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Chemical <sup>F</sup> D	Drinking Water	Turbidity	EPA 180.1
		Aluminum	EPA 200.7
		Boron	
		Calcium	
		Hardness (Calculation)	
		Iron	
		Magnesium	
		Potassium	
		Sodium	
		Zinc	
		Antimony	EPA 200.8
		Arsenic	
		Barium	
		Beryllium	
		Cadmium	/
		Chromium	1
		Copper	
		Lead	
		Manganese	
		Mercury	
		Nickel	
		Selenium	
		Silver	
		Thallium	
		Vanadium	
		Zinc	
		Chloride	EPA 300.0
		Fluoride	
		Nitrate (as N)	
		Nitrite (as N)	
		Sulfate (as SO4)	
		Alkalinity	SM 2320 B-1997
		Hardness	SM 2340 C-1997
		Specific Conductance	SM 2510 B-1997
		Residue, Filterable TDS	SM 2540 C-1997
		Chlorine, Free	SM 4500-Cl G-2000





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N, TECHNIQUE	SPECIFICATION, STANDARD METHOD OR TECH USED	nted to the facility to perform the foll SPECIFIC TESTS OR PROPERTIES MEASURED	ITEMS, MATERIALS OR PRODUCTS TESTED	FIELD OF TEST	
	SM 4500-Cl G-2000	Chlorine, Total Residual	Drinking Water	Chemical <sup>F</sup>	
	SM 4500-H+ B-2000	Hydrogen Ion (pH)			
	SM 4500-P E-1999	Phosphate, Ortho (as P)			
	SM 4500-SiO2 D-1997	Silica			
	SM 5310C-2000	Organic Carbon-Dissolved (DOC)			
	SM 5310C-2000	Organic Carbon-Total (TOC)			
	SM 5910B-2011	UV254			
2.0)	EPA 180.1 (1993 Rev. 2.0)	Turbidity	Aqueous		
4.4)	EPA 200.7 (1994 Rev. 4.4)	Aluminum			
		Antimony			
		Arsenic			
		Barium			
		Beryllium			
	)	Boron			
	/	Cadmium			
		Calcium			
		Chromium			
		Cobalt			
		Copper			
		Iron			
		Lead			
		Magnesium			
		Manganese			
		Molybdenum	A contract of		
		Nickel			
		Potassium			
		Selenium			
		Silver			
		Sodium			
		Thallium			
		Tin			
		Vanadium			
		Zinc			
		Sodium Thallium Tin Vanadium			



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Chemical <sup>F</sup>	Aqueous	Aluminum	EPA 200.8 (1994 Rev. 5.4)
		Antimony	
		Arsenic	
		Barium	
		Beryllium	
		Cadmium	
		Chromium	
		Cobalt	
		Copper	
		Iron	
		Lead	
		Manganese	
		Molybdenum	
		Nickel	)
		Selenium	/
		Silver	
		Thallium	
		Vanadium	
		Zinc	
		Chloride	EPA 300.0 (1993 Rev. 2.1)
		Fluoride	
		Nitrate (as N)	
		Nitrite (as N)	
		Sulfate (as SO4)	





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FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	ted to the facility to perform the foll SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Chemical <sup>F</sup>	Aqueous	Color	SM 2120 B-2011
		Turbidity	SM 2130 B-2011
		Alkalinity	SM 2320 B-2011
		Hardness (Calculation)	SM 2340 B-2011
		Hardness	SM 2340 C-2011
		Specific Conductance	SM 2510 B-2011
		Residue, Total	SM 2540 B-2011
		Residue, Filterable TDS	SM 2540 C-2011
		Residue, Non-filterable TSS	SM 2540 D-2011
		Residue, Settleable	SM 2540 F-2011
		Chlorine, Free	SM 4500-Cl G-2011
		Chlorine, Total Residual	SM 4500-Cl G-2011
		Hydrogen Ion (pH)	SM 4500-H+ B-2011
		Phosphate, Ortho (as P)	SM 4500-P E-2011
		Phosphorus, Total	SM 4500-P E-2011
		Sulfide (as S)	SM 4500-S- D-2011
Environmental <sup>F</sup>		Biochemical Oxygen Demand	SM 5210 B-2011
		Carbonaceous BOD	
		Chemical Oxygen Demand	SM 5220 D-2011
		Organic carbon-Total (TOC)	SM 5310 C-2011
		Ammonia (as N)	Timberline Ammonia-001
	Solids	Waste Extraction Test (WET)	CCR Chapter 11, Article 5, Appendix II
		TCLP Inorganics	EPA 1311
		Ignitability	EPA 1010
		Antimony	EPA 6010 B
		Arsenic	
		Barium	
		Beryllium	
		Cadmium	





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FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	specific tests or perform the foll specific tests or properties measured	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Environmental <sup>F</sup>	Solids	Chromium	EPA 6010 B
		Cobalt	1
		Copper	1
		Lead	
		Molybdenum	
		Nickel	
		Selenium	1
		Silver	1
		Thallium	
		Vanadium	1
		Zinc	1
		Antimony	EPA 6020
		Arsenic	
		Barium	1
		Beryllium	/
	Cadmium		
		Chromium	
		Cobalt	
	/	Copper	
		Lead	
		Molybdenum	1
		Nickel	1
		Selenium	
		Silver	
		Thallium	
		Vanadium	
		Zinc	
		Mercury	EPA 6020B
		Corrosivity - pH Determination	EPA 9045 C
Microbiological <sup>F</sup>	Aqueous/Solids	Enterococci	Enterolert
		Total Coliform, Enumeration	SM 9221 B, C-2006
		Fecal Coliform, Enumeration	SM 9221 C, E-2006
		E. coli, Enumeration	SM 9223 B-2004
			SM 9223 B-2004 Colilert
		Fecal Streptococci	SM 9230 B-2007



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Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Microbiological	Drinking Water	Heterotrophic Bacteria	SM 9215 B
		Total Coliform, P/A	SM 9223 B Colisure
		E. coli, P/A	
		Total Coliform,	
		Enumeration *	
		E. coli, Enumeration	

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.

