

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Dyad Labs (A Mérieux NutriSciences Company) 1945 South Fremont Drive, Salt Lake City, UT 84104

(Hereinafter called the Organization) and hereby declares that Organization 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 (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Biological and Chemical Testing for Nutraceuticals (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:

draft Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 Initial Accreditation Date: Issue Date: Expiration Date:

September 25, 2012 February 02, 2023 March 31, 2025

Accreditation No.: Certificate No.:

71216 L23-93

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: www.pjlabs.com





Certificate of Accreditation: Supplement

Dyad Labs (A Mérieux NutriSciences Company)

1945 South Fremont Drive, Salt Lake City, UT 84104 Contact Name: Mr. Leslie Reeves Phone: 801-973-8824

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

Supplements & GL-423 Staph. aureus USP 2022 GL-441 Salmonella USP 2022 GL-461 Aerobic Plate Count USP 2021 GL-411 E. coli/Coliform AOAC 991.14 GL-420 (Petrifilm) Enterobacteriaceae AOAC 2003.01 GL-430 (Petrifilm) Rapid Yeast/Mold AOAC 2014.05 GL-451 (Petrifilm) Salmonella - Veriflow AOAC RI 011404 D.L. = 1 CFU GL-462 Yeast and Mold USP 2021/ GL-452 D.L. = 10 CFU/g	FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Food Products Staph. aureus USP 2022 GL-441 Salmonella USP 2022 GL-461	Biological ^F	Nutriceuticals, Supplements &	E. coli		Positive/Negative
Salmonella			Staph, aureus		
Salmonella					
Aerobic Plate Count			Salmonella		
Aerobic Plate Count USP 2021 GL-411			Samonena		
B. coli/Coliform			Aerobic Plate Count		D.I. = 10 CFU/g
E. coli/Coliform			Acrobic Flate Count		D.L. = 10 Cl Clg
Chemical F Nutriceuticals, Supplements & Food Products			Enterobacteriaceae		
Enterobacteriaceae					
Rapid Yeast/Mold				\ /	
Rapid Yeast/Mold					
Salmonella - Veriflow AOAC RI 011404 D.L. = 1 CFU					
Salmonella - Veriflow GL-462 D.L. = 1 CFU Yeast and Mold USP 2021/ GL-452 D.L. = 10 CFU/g Nutriceuticals, Supplements & Food Products ACAC 993.14 D.L. = 0.016 2 mg/kg (ppm) (As) Gluten Peptide:					
Chemical F			G I II XI 'CI		D. I. CEU
Chemical F Supplements & Food Products Arsenic, Cadmium, Lead GL-500 Gluten Peptide: R- Biopharm R7021, Ridascreen Gliadin Competitive Gluten Peptide: R-Biopharm R7001, Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury Arsenic, Cadmium, Lead GL-500 GL-500 D.L. = 0.008 7 mg/kg (ppm) (Cd) D.L. = 10 mg/kg (ppm) (Pb) D.L. = 10 mg/kg (ppm) D.L. = 10 mg/kg (ppm) D.L. = 1 mg/kg (ppm) Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc EPA 7473 GL-585 (DMA) FTIR Identification USP 39-NF 34 Qualitative Data			Salmonella - Veriflow		D.L. = 1 CFU
Supplements & Food Products GL-500			Yeast and Mold	USP 2021/ GL-452	D.L. = 10 CFU/g
Food Products	Chemical F	Nutriceuticals,	Arsenic, Cadmium, Lead	AOAC 993.14	D.L. = $0.016 2 \text{ mg/kg (ppm) (As)}$
Food Products		Supplements &		GL-500	
Gluten Peptide: R- Biopharm R7021, Ridascreen Gliadin Competitive Gluten Peptide: R-Biopharm R7001, Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury Gluten Peptide: AOAC 2012.01 GL-581 (ELISA): D.L. = 5 mg/kg (ppm) D.L. = 5 mg/kg (ppm) Col. = 1 mg/kg (ppm) (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (EPA 7473 GL-585 (DMA) FTIR Identification USP 39-NF 34 Qualitative Data				(ICP-MS)	
R- Biopharm R7021, Ridascreen Gliadin Competitive Gluten Peptide: R-Biopharm R7001, Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury R-Biopharm R7021, GL-580 (ELISA) D.L. = 5 mg/kg (ppm) D.L. = 1 mg/kg (ppm) (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 0.001 mg/kg D.L. = 0.001 mg/kg Qualitative Data			Gluten Peptide:		
Ridascreen Gliadin Competitive Gluten Peptide: R-Biopharm R7001, Ridascreen Gliadin Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury Ridascreen Gliadin (ELISA): GL-581 (ELISA): GL-500 Prep Methods GL-502 & GL-503 (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 1000 mg/kg D.L. = 0.001 mg/kg D.L. = 0.001 mg/kg D.L. = 0.001 mg/kg					2 2 41 /
Competitive Gluten Peptide: R-Biopharm R7001, Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury Competitive AOAC 2012.01 BL.= 5 mg/kg (ppm) D.L.= 1 mg/kg (ppm) (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 0.001 mg/kg					
Gluten Peptide: R-Biopharm R7001, Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury Gluten Peptide: AOAC 2012.01 GL-581 (ELISA): D.L. = 1 mg/kg (ppm) (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) (EPA 7473 GL-585 (DMA) FTIR Identification USP 39-NF 34 Qualitative Data					
R-Biopharm R7001, Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury EPA 7473 GL-585 (DMA) FTIR Identification GL-581 (ELISA): D.L. = 1 mg/kg (ppm) (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 0.001 mg/kg Qualitative Data				AOAC 2012.01	D.L = 5 mg/kg (ppm)
Ridascreen Gliadin Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury EPA 7473 GL-585 (DMA) FTIR Identification GL-500 Prep Methods GL-502 & GL-503 (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 0.001 mg/kg Qualitative Data					Z.Z. v mg/ng (ppm)
Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury EPA 7473 GL-585 (DMA) GL-500 Prep Methods GL-502 & GL-503 (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 100 mg/kg (ppm) (Mercury) EPA 7473 GL-585 (DMA) FTIR Identification USP 39-NF 34 Qualitative Data					
Copper, Iron, Potassium, Magnesium, Manganese, Sodium, Phosphorus, Selenium, Zinc Mercury EPA 7473 GL-585 (DMA) FTIR Identification GL-502 & GL-503 (Cr, Cu, Fe, Mn, Se, Zn) D.L. = 10 mg/kg (ppm) (K, Na, Mg, P) D.L. = 100 mg/kg (ppm) (Ca) D.L. = 0.001 mg/kg Qualitative Data					D.L. = 1 mg/kg (nnm)
Magnesium, Manganese, (ICP-MS) D.L. = 10 mg/kg (ppm) Sodium, Phosphorus, (K, Na, Mg, P) Selenium, Zinc D.L. = 100 mg/kg (ppm) (Ca) Mercury EPA 7473 D.L. = 0.001 mg/kg GL-585 (DMA) FTIR Identification USP 39-NF 34 Qualitative Data				-	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				(ICI WIS)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
GL-585 (DMA) FTIR Identification USP 39-NF 34 Qualitative Data				ΕΡΔ 7473	
(DMA) FTIR Identification USP 39-NF 34 Qualitative Data			Wichedry		D.L. = 0.001 mg/kg
FTIR Identification USP 39-NF 34 Qualitative Data					
			ETIP Identification		Qualitative Data
			FIIK Identification		Quantative Data
				CIII)/ GL-JII	





Certificate of Accreditation: Supplement

Dyad Labs (A Mérieux NutriSciences Company)

1945 South Fremont Drive, Salt Lake City, UT 84104 Contact Name: Mr. Leslie Reeves Phone: 801-973-8824

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	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical F	Nutriceuticals, Supplements &	Vitamin B 1- Thiamine HCl	GL-602 (UPLC)	D.L. = $0.02 \mu g/g$
	Food Products	Vitamin B 2- Riboflavin	GL-602	D.L. = $0.02 \mu g/g$
		Vitamin B 3- Niacin	(UPLC)	D.L. = $0.05 \mu g/g$
		Vitamin B 3- Niacinamide		D.L. = 0.6 µg/g
		Vitamin B 6- Pyridoxine HCl		D.L. = $0.3 \mu g/g$
		Aflatoxin B1	GL-800	1 ng/g to 25 ng/g (ppb)
		Aflatoxin B2	(LC-MS/MS)	
		Aflatoxin G1		
		Aflatoxin G2		
ı		Ochratoxin A		1 ng/g to 25 ng/g (ppb)
		Melamine	GL-801	0.05 mg/kg to 5 mg/kg (ppm)
		Vitamin B 12-	(LC-MS/MS) GL-804	0.002 mg/kg to 0.2 mg/kg (ppm)
		Cyanocobalamin	(LC-MS/MS)	0.002 mg/kg to 0.2 mg/kg (ppm)
		Protein ID	AOAC 2017.11	Confirmed Presence/ Not
		(Rice Protein, Soy Protein,	AOAC 2017.12	Detected
		Pea Protein, Cow Milk	GL-803	
		Protein: Whey, Casein)	(LC-MS/MS)	
Chemical F	Dietary	Caffeine	GL-627 (UPLC)	80 μg/mL to 320 μg/mL
	Supplements and Foods	Creatine	GL-604 (UPLC)	150 μg/mL to 1 000 μg/mL
		Mercury	AOAC 993.14 GL-500 (ICP-MS)	D.L. = 0.012 mg/kg
		Soy: Neogen Veratox	GL-591 (ELISA)	2.5 mg/kg to 25 mg/kg
		Protein	AOAC 992.23/ GL-543	D.L. =1.25% Crude Protein
		Theacrine	GL-627 (UPLC)	4 μg/mL to 16 μg/mL

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