



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### ***Bluewater Toxicology, LLC dba Bluewater Diagnostic Laboratory***

***221 S. Bardstown Rd., Mt Washington, KY 40047***

*(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):

### ***Microbiological, Toxicological, Chemical and Biological 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:

Tracy Szerszen  
President

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*Initial Accreditation Date:*

September 15, 2021

*Issue Date:*

September 15, 2021

*Expiration Date:*

November 30, 2023

*Accreditation No.:*

115681

*Certificate No.:*

L21-549

*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.pjilabs.com](http://www.pjilabs.com)*



# Certificate of Accreditation: Supplement

## Bluewater Toxicology, LLC dba Bluewater Diagnostic Laboratory

221 S. Bardstown Rd, Mt Washington, KY 40047  
 Contact Name: Doug Weaver Phone: 502-538-2980

*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 <sup>F</sup>	Blood	25-Hydroxyvitamin D (25-OH-D)	SOP 126755.971 (Chemistry Analyzer)	5 ng/mL to 200 ng/mL
		Alanine Aminotransferase (ALT) (SGPT)		5 U/L to 7 000 U/L
		Albumin		0.2 g/dL to 18 g/dL
		Alkaline Phosphatase		5 U/L to 6 000 U/L
		Amylase		3 U/L to 7 500 U/L
		Anti-SARS-CoV-2 S protein		0.4 U/mL to >250 U/mL
		Anti-Thyroglobulin Antibodies (aTG)		10 IU/mL to 3 100 IU/mL
		Aspartate Aminotransferase		5 U/L to 7 000 U/L
		Bilirubin, Direct		0.2 mg/dL to 10 mg/dL
		Bilirubin, Total		0.15 mg/dL to 70.2 mg/dL
		Calcium, Total		0.8 mg/dL to 100.5 mg/dL
		Carbon Dioxide, Total		2 mmol/L to 50 mmol/L
		Chloride		60 mmol/L to 140 mmol/L
		Cholesterol		3.86 mg/dL to 8 000 mg/dL
		Cortisol		0.054 ug/dL to 634 ug/dL
		C-Reactive Protein		0.30 mg/dL to 70.00 mg/dL
		C-Reactive Protein, High-Sensitivity		0.15 mg/L to 300 mg/L
		Creatinine		0.17 mg/dL to 126 mg/dL
		Dehydroepiandrosterone Sulfate (DHEA-SO <sub>4</sub> )		0.20 ug/dL to 1 000 ug/dL
		Estradiol		14 pg/mL to 30 000 pg/mL
		Ferritin		0.5 ng/mL to 100 000 ng/mL
		Folate		2.00 ng/mL to 40.00 ng/mL
		Follicle Stimulating Hormone (FSH)		0.6 mIU/mL to 200 mIU/mL
		g-Glutamyl Transferase (GGT)		3 U/L to 12 500 U/L
		Glucose		2 mg/dL to 1 500 mg/dL
		Haptoglobin		10 mg/dL to 1 140 mg/dL
		Hemoglobin A1c		2.9 % to 14%
Hepatitis A Virus Antibody	Non-Reactive; Equivocal, Reactive			
Hepatitis A Virus Antibody IgM	Non-Reactive; Equivocal, Reactive			



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Chemical <sup>F</sup>	Blood	Hepatitis B Core Antibody, IgM	SOP 126755.971 (Chemistry Analyzer)	Non-Reactive; Equivocal, Reactive
		Hepatitis B Core Antibody, Total		Non-Reactive; Equivocal, Reactive
		Hepatitis B Surface Antibody		Non-Reactive; Equivocal, Reactive
		Hepatitis B Surface Antigen (HBsAg)		Non-Reactive; Equivocal, Reactive
		Hepatitis C Virus Antibody		Non-Reactive; Equivocal, Reactive
		High-density Lipoprotein Cholesterol (HDL)		3.87 mg/dL to 1098 mg/dL
		HIV-1/2 Antigens and Antibodies		Non-Reactive; Equivocal, Reactive
		Human Chorionic Gonadotropin (hCG), b-Subunit, Quantitative		0.2 mIU/mL to 1 000 000 mIU/mL
		Insulin		0.4 µIU/mL to 1 000 µIU/mL
		Iron		5 µg/dL to 1 000 µg/dL
		Iron-Binding Capacity, Total (TIBC)		N/A
		Iron-Binding Capacity, Unsaturated (UIBC)		16.8 µg/dL to 1 400 µg/dL
		Lactate Dehydrogenase (LDH)		10 U/L to 2 500 U/L
		Lipase		3 U/L to 3 000 U/L
		Low-density Lipoprotein Cholesterol (LDL)		3.87 mg/dL to 1 098 mg/dL
		Luteinizing Hormone (LH)		0.3 mIU/mL to 200 mIU/mL
		Magnesium		0.24 mg/dL to 9.72 mg/dL
		Parathyroid Hormone – Intact		1.2 pg/mL to 5 000 pg/mL
		Phosphorus		1.2 pg/mL to 5 000 pg/mL
		Potassium		1.5 mmol/L to 10 mmol/L
		Progesterone		0.05 ng/mL to 60 ng/mL
		Prolactin		0.09 ng/mL to 4 700 ng/mL
		Prostatic Specific Antigen (PSA), Free (fPSA)		0.018 ng/mL to 50 ng/mL
Prostatic Specific Antigen (PSA), Total (tPSA)	0.01 ng/mL to 5 000 ng/mL			
Protein, Total	0.2 g/dL to 36 g/dL			
Rheumatoid Factor (RF)	10 IU/mL to 650 IU/mL			



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Chemical <sup>F</sup>	Blood	SARS-CoV-2 Antibodies (IgG, IgM)	SOP 126755.971 (Chemistry Analyzer)	Non-Reactive; Equivocal, Reactive
		Sex Hormone Binding Globulin (SHBG)		0.8 nmol/L to 2 000 nmol/L
		Sodium		80 mmol/L to 180 mmol/L
		Syphilis Antibodies (Treponema pallidum)		Non-Reactive; Equivocal, Reactive
		Testosterone		2.5 ng/dL to 1 500 ng/dL
		Testosterone, Free		2 pg/mL to 500 pg/mL
		Thyroid Stimulating Hormone (TSH)		0.005 uIU/mL to 1 000 uIU/mL
		Thyroid-specific Peroxidase Antibodies		9 IU/mL to 600 IU/mL
		Thyroxine (T4)		0.42 ug/mL to 24.86 ug/mL
		Thyroxine, Free (FT4)		0.101 ng/dL to 7.77 ng/dL
		Transferrin		10 mg/dL to 780 mg/dL
		Triglycerides		8.85 mg/dL to 4 425 mg/dL
		Triiodothyronine (T3)		0.195 ng/mL to 6.51 ng/mL
		Triiodothyronine, Free (FT3)		0.39 pg/mL to 32.60 pg/mL
		Urea (BUN)		1.4 mg/dL to 336 mg/dL
		Uric Acid		0.2 mg/dL to 62.5 mg/dL
		Vitamin B12		150 pg/mL to 4 000 pg/mL
Toxicology	Urine	6-MAM	SOP- 126755.28 (Chemistry Analyzer)	20 ng/mL
		Amphetamines		500 ng/mL
		Barbiturates		200 ng/mL
		Benzodiazepines		200 ng/mL
		Buprenorphine		8 ng/mL
		Cannabinoids		50 ng/mL
		Cocaine Metabolites		150 ng/mL
		Cotinine		500 ng/mL
		Ethyl Alcohol		100 ng/mL
		Ethyl Glucuronide		500 ng/mL
		Fentanyl		2 ng/mL
		Hydrocodone		300 ng/mL
		MDMA		500 ng/mL
Methadone	300 ng/mL			



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Toxicology	Urine	Opiates	SOP- 126755.28 (Chemistry Analyzer)	300 ng/mL
		Oxycodone		100 ng/mL
		Tramadol		200 ng/mL
		Specific Gravity		1.003 g/mL to 1.040 g/mL
		pH		3 pH Units to 11 pH Units
		Urine Creatinine		20 mg/dL to 200 mg/dL
		Oxidants		200 ug/mL
		6-MAM	126755.26 (LC/MSMSMS)	40 ng/mL
		7-AminoClonazepam		20 ng/mL
		Alpha-Hydroxy-Alprazolam		20 ng/mL
		Amphetamine		40 ng/mL
		Baclofen		40 ng/mL
		Benzoylcegonine		40 ng/mL
		Bupropion		40 ng/mL
		Butalbital		200 ng/mL
		Carfentanil		8 ng/mL
		Carisoprodol		200 ng/mL
		Citalopram		40 ng/mL
		Codeine		20 ng/mL
		Cotinine		40 ng/mL
		Cyclobenzaprine		100 ng/mL
		d/l Methamphetamine		40 ng/mL
		Dihydrocodeine		20 ng/mL
		EDDP		20 ng/mL
		Fentanyl		8 ng/mL
		Fluoxetine		40 ng/mL
		Gabapentin		200 ng/mL
		Hydrocodone		20 ng/mL
		Hydromorphone		20 ng/mL
		Hydroxybupropion		40 ng/mL
		Imipramine	40 ng/mL	
		Ketamine	20 ng/mL	
Lorazepam	20 ng/mL			
MDA	40 ng/mL			



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Toxicology	Urine	MDPV	126755.26 (LC/MSMSMS)	40 ng/mL
		Meperidine		20 ng/mL
		Mephedrone		40 ng/mL
		Meproamate		200 ng/mL
		Methadone		20 ng/mL
		Methamphetamine		40 ng/mL
		Mitragynine (Kratom)		100 ng/mL
		Morphine		20 ng/mL
		Naloxone		8 ng/mL
		Naltrexone		20 ng/mL
		Norbuprenorphine		8 ng/mL
		Nordiazepam		20 ng/mL
		Norfentanyl		8 ng/mL
		Norhydrocodone		20 ng/mL
		Noroxycodone		20 ng/mL
		Nortriptyline		40 ng/mL
		O-desmethyltramadol		100 ng/mL
		Oxazepam		20 ng/mL
		Oxycodone		20 ng/mL
		Oxymorphone		20 ng/mL
		Paroxetine		40 ng/mL
		Phencyclidine		40 ng/mL
		Phenobarbital		200 ng/mL
		Phentermine		100 ng/mL
		Pregabalin		100 ng/mL
		Propoxyphene		20 ng/mL
		Ritalinic Acid		40 ng/mL
		Sertraline		40 ng/mL
		Sufentanil		8 ng/mL
		Tapentadol		100 ng/mL
		Temazepam		20 ng/mL
		THC-COOH NEG		40 ng/mL
		Triazolam		20 ng/mL
Zolpidem-COOH	8 ng/mL			
Buprenorphine	8 ng/mL			
Alcohol (EtG/EtS)	100 ng/mL			



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Chemical <sup>F</sup>	Blood	Free Testosterone	126755.228 (LC/MSMSMS)	100 ng/mL
		Hepatitis C Quantitative	126755.80 (PCR)	<1-8 log <sub>10</sub> (IU/mL)
Biological <sup>F</sup>	Blood (Hematology)	WBC Count	SOP 126755.21 (Hematology Analyzer)	0.03/μL to 440 x 10 <sup>3</sup> /μL
		Neutrophil Count		
		Lymphocyte Count		
		Monocyte Count		
		Eosinophil Count		
		Basophil Count		
		Neutrophil Ratio		
		Lymphocyte Ratio		
		Monocyte Ratio		
		Eosinophil Ratio		
		Basophil Ratio		
		RBC Count		
		Hemoglobin		
		MCV		
		MCH		
		Hematocrit		
		RDW-CV		
		Platelet Count		
MCHC				
Erythrocyte Sedimentation Rate				
Microbiological <sup>F</sup>	Urine	Chlamydia	126755.576 (PCR)	Positive/Negative
		Gonorrhea		
		Trichomonas		
	Oral rinse/nasopharyngeal Swab	Covid	126755.792/126755.582 (PCR)	Positive or Negative or Indeterminate
		Blood	Tuberculosis	126755.830 (ELISA)

- 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.