

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***Atlantic Analytical Laboratory
Salem Industrial Park, Bldg 4
Whitehouse, NJ 08888***

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

ISO/IEC 17025: 2005

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 January 2009):

***Testing for Composition and Trace Impurities by Gas and Liquid Analysis
(As detailed in the supplement)***

Such testing and/or calibration services shall only be offered at or from the address given above. 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:

The validity of this certificate is mandated through ongoing surveillance.

Tracy Szerszen
President/Operations Manager
Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
26555 Evergreen, Suite 1325
Southfield, Michigan 48076

Initial Accreditation Date:
March 18, 2007

Accreditation No.:
59415

Issue Date:
April 04, 2009

Certificate No.:
L09-32

Expiration Date:
April 03, 2011

Page No.:
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Certificate of Accreditation: Supplement

Atlantic Analytical Laboratory
Salem Industrial Park, Bldg 4
Whitehouse, NJ 08888

Accreditation is granted to this 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	DETECTION LIMIT
Analytical	Gases	Concentration Identification	GC/TCD	Varies with Compound 50 ppmv to 100 ppmv (0.005% to 0.01% by volume)
			Gas Cell FT-IR	Varies with Compound 0.1 ppmv to 2 ppmv (0.000 01% to 0.000 2% by volume)
			Gas Mass Spectrometer	Varies with Compound (0.000 2% to 0.002 5% by volume)
		Concentration Identification of Organics	GC/FID	Varies with Compound 0.5 ppmv to 10 ppmv (0.000 05% to 0.001% by volume)
			GC/MS/P&T	Varies with Compound 10 ppbv to 50 ppbv (0.000 001% to 0.000 005% by volume)
		Concentration Identification of Sulfur Compounds	GC/SCD	Varies with Compound 10 ppbv to 50 ppbv (0.000 001% to 0.000 005% by volume)
		Concentration Identification of Hydrogen	GC/PDD	0.2 ppmv (0.000 02% by volume)
		Concentration	Continuous Flow Specific Gas Analyzers	Varies with Compound 0.02 ppmv to 0.1 ppmv (0.000 002% to 0.000 01% by volume)

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Analytical	Carbon Dioxide	Concentration	All ISBT* CO2 Methods	Various 2 ppbv to 1 ppmv as per test specifications (0.0000002% to 0.0001% by volume)
	Natural Gas	Concentration BTU Value	ASTM D-1945 ASTM D-3588	As per ASTM D-1945
	Liquid Fuels	BTU Value	ASTM D-240	As per ASTM D-240
	Residual Solvents on Powders	Concentration Identification	GC/MS USP <467>	Varies with compound 2 ppm (mg/kg) to 25 ppm (mg/kg)
	Gases	Moisture Concentration	Electronic Hygrometer	1 ppmv (0.0001% by volume)
	Oil Residue	Identification	FT-IR Thin Film Microscope	Not Quantified – ID Only