



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

North American Science Associates, Inc. (NAMSA)

9 Morgan

Irvine, CA 92618

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-2562

Certificate Number


ANAB Approval

Certificate Valid: 11/12/2018-03/09/2020

Version No. 004 Issued: 11/12/2018



This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

North American Science Associates, Inc. (NAMSA)

9 Morgan
Irvine, CA 92618

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TESTING

Valid to: March 9, 2020

Certificate Number: AT-2562

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
USP Physiochemical Testing – Polymers, Resins, Mixed Materials, Elastomeric Closures	USP38-NF33 <661>; USP <381>	Polymers, Resins, Mixed Materials (including: polymers, fiberglass, resins, carbon or advanced composites, and metals), Elastomeric Closures	FTIR Spectrophotometer, Balances, Rotary Evaporator, Incubators, pH Meter, UV-Vis Spectrophotometer
Infrared Analysis (IR)	USP <197>	Polymers, Non-Volatile Residue, Particulates	FTIR Spectrophotometer
Particulate Analysis	USP <788>; USP <789>	Medical Devices	Particle Counting Apparatus, LAF Hood, Microscope
Ethylene Oxide Residuals Analysis	ISO 10993:7	Medical Devices	Gas Chromatography
USP Total Organic Carbon	USP <643>	Medical Devices	TOC Analyzer

Biological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Cytotoxicity Assay, Elution Method (48-hour Exposure): L929 Cells	ISO 10993-5; USP <87>	Polymers, Metals, Assembled Devices, Materials	Cell Culture Equipment, Microscope



Biological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Cytotoxicity Assay, Agarose Overlay: L929 Cells	ISO 10993-5; USP <87>	Polymers, Metals, Assembled Devices, Materials	Cell Culture Equipment, Microscope
USP Limulus Amebocyte Lysate (LAL) Kinetic Turbidimetric Method	USP <85>	Polymers, Metals, Assembled Devices, Materials, Drug Products (Intermediates and Finished)	Spectrophotometer, Incubator
USP Limulus Amebocyte Lysate (LAL) Kinetic Chromogenic Method	USP <85>	Polymers, Metals, Assembled Devices, Materials, Drug Products (Intermediates and Finished)	Spectrophotometer, Incubator
USP Limulus Amebocyte Lysate (LAL) Gel Clot Method	USP <85>	Polymers, Metals, Assembled Devices, Materials, Drug Products (Intermediates and Finished)	Incubator, Qualitative Observation

Microbiological


Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Bioburden Testing of Medical Products	ISO 11737-1	Medical Devices, Materials, Pharmaceuticals, Human Tissues	ISO Class 5 Hoods, Incubators
Identification of Microorganisms	Bergey's Manuals of Systematic and Determinative Bacteriology	Medical Devices, Materials, Pharmaceuticals, Human Tissues	ISO Class 5 Hoods, Incubators, Genetic Sequencer, Thermocyclers, Automated Biochemical Identification System
Bacteriostasis/Fungistasis Testing	ISO 11737-2; ISO 11137; ISO 11135; USP <71>	Medical Devices, Materials, Pharmaceuticals, Human Tissues	ISO Class 6 Cleanroom, ISO Class 5 Hoods, Incubators
USP Antimicrobial Preservative Effectiveness	USP <51>	Medical Devices, Materials, Pharmaceuticals	ISO Class 5 Hoods, Incubators
Bioburden Recovery Validation	ISO 11737-1	Medical Devices, Materials, Pharmaceuticals, Human Tissues	ISO Class 5 Hoods, Incubators

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Incubation and Enumeration of Fallout Plates, RODAC® Plates, or Air Sampler Media	ISO 14698-1	Environmental Monitoring	Incubators, Macroscopic Observations
Kirby-Bauer Standard Antimicrobial Susceptibility Test	American Journal of Clinical Pathologists, Volume 95	Medical Devices, Materials, Pharmaceuticals	ISO Class 5 Hoods, Incubators
Determining Antimicrobial Activity of Immobilized Antimicrobial Agents	ASTM E2149	Medical Devices, Materials	ISO Class 5 Hoods, Incubators
Sterility	ISO 11737-2; ISO 11137; ISO 11135; USP <71>	Medical Devices, Materials, Pharmaceuticals, Human Tissues	ISO Class 6 Cleanroom, ISO Class 5 Hoods, Incubators
Gram Stain and Colony Morphology	ISO 14698-1	Medical Devices, Materials, Pharmaceuticals, Human Tissues	ISO Class 5 Hoods, Incubators, Microscopes

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2562.



Vice President