

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

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

This is to certify that

Toxikon Corporation 15-25 Wiggins Avenue Bedford, MA 01730

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-1340 Certificate Number

ANAB Approval

Certificate Valid: 07/03/2018-07/24/2020 Version No. 004 Issued: 07/03/2018





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Toxikon Corporation

15-25 Wiggins Avenue Bedford, MA 01730

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TESTING

Valid to: July 24, 2020 Certificate Number: AT-1340

Biological

Specific Tests and/or	Specification, Standard,	Items, Materials or	Key Equipment or
Properties Measured	Method, or Test Technique	Product Tested	Technology
Tests for Genotoxicity	ISO 10993-3 Bacterial Reverse Mutation (Ames) Test (OECD 471) SOP 6.1.11 In Vitro Mammalian Chromosome Aberration Test (OECD 473) SOP 6.1.32; 6.1.32.1 Mammalian Erythrocyte Micronucleus Test (OECD 474) SOP 6.1.117 SOP 6.1.192 In vitro Mammalian Cell Gene Mutation Test-Mouse Lymphoma Assay (OECD 476) SOP 6.1.142	Finished Medical Devices and Components / Drugs	Colony Counters Microscopes Semi-quantitative BD FACS Flow Cytometer





Biological

Specific Tests and/or	Specification, Standard,	Items, Materials or	Key Equipment or
Properties Measured	Method, or Test Technique	Product Tested	Technology
Tests for Interaction with Blood	ISO 10993-4 In Vitro Hemocompatibility (SOP 6.1.153, 3.8.211) WBC. RBC, Platelet Counts, Erythrocyte Indices		Advia & hematology counter
	PT / UPTT /APTT/ Lee and White Coagulation Time (SOP 6.1.63, SOP 6.1.152, SOP 6.1.64, and 6.1.132)	Finished Medical Devices and Components / Drugs	Start4 Hemostasis Analyzer Packs 4 Aggregometer
	Time for platelet aggregation (SOP 6.1.156) Complement Activation (SOP 6.1.150)		ELISA, plate reader
	Thrombogenicity (SOP 6.2.32) Hemolysis (SOP 6.1.51 and SOP 6.1.169)	44	Spectrophotometer
Tests for In vitro Cytotoxicity	ISO 10993-5 Mem Elution / Cytotoxicity or Direct Contact (SOP 6.1.53) Agar Diffusion	Finished Medical Devices and Components / Drugs	Cell culture equipment / microscope Plate reader
Tests for Local Effects after Implantation	ISO 10993-6 Implant Test (SOP 6 2 13 3)	Finished Medical Devices and Components / Drugs	Animal system Explant and histological evaluation / pathology





Biological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Tests for Irritation and Sensitization	ISO 10993-10 Kligman Sensitization (SOP 6.2.20) Buehler Sensitization (SOP 6.2.25.3) Ocular, Vaginal, Buccal, Skin, Penile Irritation (SOPs 6.2.16, 6.2.28, 6.2.27, 6.2.23. 6.2.29) Intracutaneous (SOP 6.2.13.2) Murine Lymph Node Assay (SOP 6.2.54)	Finished Medical Devices and Components / Drugs	Animal systems-Clinical observations and tissue evaluations Scintillation counter
Tests for Systemic Toxicity	Pyrogen Test (SOP 6.2.14) Systemic Injection Test (SOP 6.2.13.1) 14 Day Intravenous Toxicity (SOP 6.2.40) 21/28 Day Repeat Dose Study (SOP 6.2.37) Systemic Toxicity via Intramuscular or Subcutaneous Implantation (SOP 6.2.62)	Finished Medical Devices and Components / Drugs	Animal Systems Thermometer readings Clinical observations Scoring Tissue Evaluations Advia automatic hematology counter Cobas automatic clinical chemistry analyzer

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Techniqu	Items, Materials or Product Tested	Key Equipment or Technology
Ethylene Oxide Sterilization	ISO 10993-7	Finished Medical Devices and	Agilent 6890 GC-FID
Residuals	SOP 11.2	Components / Drugs	Agneiii 6890 GC-FID





Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
	ISO 10993-18		(Detection limits vary with
	GC (SOPs 3.7.33, 3.7.38,		analyte & matrix)
	11.67, 11.68)		Agilent 5890 and 6890 GC
	GC/MS (SOP 3.7.30, 11.67,		and GC/MS
	11.68, 11.95)	/	Agilent 1100 HPLC and
	HPLC (SOP 3.8.88)		LC/MS systems
Leachables and Extractables	LC/MS (SOP 10.15,	Finished Medical Devices and	
Testing	10.19,11.94)	Components / Drugs	Tekmar Dohrman Phoenix
	TOC and TIC (SOP		8000 TOC & Tekmar TOC
	3.8.63,3.8.250 11.9)	/	Fusion
	ICP (SOP 3.8.201, 11.96,		Thermo Fisher 6300 ICP
	11.97)		Thermo Fisher 61E and
	ICP/MS (SOP 3.8.131, 10.15)		X Series ICP w/MS
	FTIR (SOP 3.8.115)	A	Perkin Elmer IR

Microbiological

Specific Tests and/or Properties Measured	Specificat <mark>ion, Standard,</mark> Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Bioburden Testing	ISO 11737-1 Sterilization of Medical Devices Estimation of Organisms on Products SOP 6.1.49 / USP, AAMI	Finished Medical Devices and Components / Drugs	Autoclave, incubators, HEPA hood
Sterility Test Methods	ISO 11737-2 Sterilization of Medical Devices Validation of a Sterilization Process USP, AAMI 6.1.47 and 6.1.2	Finished Medical Devices and Components / Drugs	Sterile Room Autoclave, incubators, HEPA hood

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1340.



