

Section 1: Product and Company Identification

Product Name	Nitrotyrosine ELISA Kit
Catalog Number	SKT-126
Company	StressMarq Biosciences Inc. PO Box 55036 Cadboro Bay Victoria BC V8N4G0 CANADA Tel: 250.294.9065 Fax: 250-294-9025 info@stressmarq.com www.stressmarq.com

Section 2: Chemical Component Information

List of Components	Nitrosylated BSA Coated Plate (SKC-126A) Nitrotyrosine Standard (SKC-126C) Nitrotyrosine HRP Conjugated Monoclonal Antibody (SKC-126F) Sample and Standard Diluent (SKC-0001) Nitrotyrosine Antibody Diluent (SKC-0002) Wash Buffer Concentrate (SKC-0003) TMB Substrate (SKC-0004) Stop Solution (SKC-0005) Plate Cover (SKC-0009)			
--------------------	---	--	--	--

Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>Kit Component</u>	<u>Percent</u>	<u>SARA 313</u>
Sulfuric Acid	7664-93-9	Stop Solution	<0.9	No
EDTA	60-00-4	Blocking Solution	< 0.5%	No
Sodium Hydroxide	1310-73-2	Plate Components	< 1.0%	No
3,3',5,5'-tetramethylbenzidine (TMB)	54827-17-7	TMB Substrate	N/A	No
ProClin® 200	10377-60-3 AND 55965-84-9 AND 3251-23-8	Plate, Standard, Sample and Standard Diluent, Antibody Diluent, Wash Buffer Concentrate	< 1.0% per component	No

Section 3: Health Hazards

Emergency Overview	It is recommended that personnel wear safety goggles, gloves and protective clothing at all times. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical components of this kit and ensure prompt removal from skin, eye, and clothing.
Sulfuric Acid	Hazard statements(s): H314 - Causes severe skin burns and eye damage. Precautionary statement(s): P260 - Do not breathe mist, vapours, spray. P264 - Wash exposed skin thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Material Safety Data Sheet

Nitrotyrosine ELISA Kit (Cat No. SKT-126)

P310 - Immediately call a POISON CENTER/doctor
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to comply with local, state and federal regulations

Section 4: First Aid Measures

	Sulfuric Acid	EDTA	TMB	ProClin® 200	NaOH
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.	If inhaled, remove to fresh air.	If inhaled, remove to fresh air.	If inhaled, remove to fresh air. Loosen clothing as necessary. If breathing is difficult give oxygen.
Skin Contact	Wash thoroughly with soap and water. Seek immediate medical attention.	Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	Wash thoroughly with soap and water.	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention.	Wash affected area with soap and water.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.	Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used.	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and seek immediate medical attention. Continue rinsing during transport to hospital. Cold water may be used.	Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Immediately get medical assistance.

Material Safety Data Sheet

Nitrotyrosine ELISA Kit (Cat No. SKT-126)

Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.	If swallowed, wash out mouth with water provided person is conscious. Call a physician.	Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Rinse mouth. Get medical attention if symptoms appear.	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water and seek medical attention.	Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention.
-----------	--	---	---	---	--

Section 5: Fire Fighting Measures

Extinguishing Media	Suitable: Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical. Fight larger fires with water spray or alcohol resistant foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus if necessary. Do not inhale explosion gases or combustion gases. Wear fully protective suit.

Section 6: Accidental Release Measures

Cleanup Procedures	Wear appropriate protective clothing. Avoid breathing vapors, mist or gas. Contain spill to prevent migration. Wipe up spill, place in suitable, closed container for appropriate disposal. Wash area of spill with soap and water. Sulfuric Acid: Neutralize the residue with a dilute solution of sodium carbonate.
Waste Disposal	Dispose of in accordance with federal, state, and local regulations.

Section 7: Handling and Storage

Handling	Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.
Storage	Store according to the package insert instructions.

Section 8: Exposure Controls and Personal Protection

Engineering Controls	No special engineering controls are required when working with this kit. Use with adequate ventilation.
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.

Section 9: Physical and Chemical Properties

<u>Characteristic</u>	<u>Sulfuric Acid</u>	<u>EDTA</u>	<u>TMB</u>	<u>ProClin® 200</u>	<u>NaOH</u>
Appearance	Clear, colorless liquid	Solid	Liquid	Light blue liquid	Clear, Colorless liquid
Odor	Odorless	N/A	Odorless	Not determined	Odorless
Boiling Point	270°C	N/A	Not determined	100°C	1388°C
Melting Point	-35°C	N/A	Not determined	-3°C	318.4°C
Flash Point	Not applicable	N/A	Not applicable	Not determined	N/A
Ignition temperature	Not determined	N/A	Not determined	Not determined	N/A
Vapor Pressure	Not determined	N/A	Not determined	Not determined	<2.4 kPa
Solubility in Water	Complete	Soluble in cold water	Not determined	Complete	Soluble
pH	Acidic	5	N/A	1.7-3.7	13

Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as directed. Avoid strong oxidizing agents.
Conditions to Avoid	Conditions to Avoid: Incompatible materials, excess heat, combustible material materials, organic materials, exposure to moist air or water, oxidizers, amines, bases. Always add the acid to water, never the reverse.
Incompatibles	Reactive with oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis, moisture.

Section 11: Toxicological Information

<u>Route of Exposure</u>	
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.
<u>Symptoms of Exposure</u>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

No data is available.

Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14: Transport Information

U.S. and Canadian Transportation; DOT

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	N/A
Hazard Label	Class 9

International Air Transportation (IATA)

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	III
Hazard Label	Class 9

Section 15: Regulatory Information

Product related information

The product is not subject to classification according to the sources of literature known to us.
Observe general safety regulations when handling chemicals.

Safety Statements

Avoid release to the environment.

Risk Statements

<u>Sulfuric Acid</u>	<u>EDTA</u>	<u>TMB</u>	<u>ProClin® 200</u>	<u>NaOH</u>
<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage</p> <p>H335 May cause respiratory irritation.</p> <p>P280 Wear protective gloves, protective clothing, eye protection and face protection</p> <p>R21/22 Harmful in contact with skin and if swallowed.</p> <p>R36/37/38 Irritating to eyes, respiratory system and skin.</p> <p>R36/38 Irritating to eyes and skin.</p>	<p>H332 - Harmful if inhaled.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312 - Call a POISON CENTER or doctor/physician if you feel unwell.</p>	<p>H302 Harmful if swallowed.</p> <p>R21/22 Harmful in contact with skin and if swallowed.</p> <p>R36/37/38 Irritating to eyes, respiratory system and skin.</p> <p>R36/38 Irritating to eyes and skin.</p>	<p>H314 Causes severe skin burns and eye damage.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H411 Toxic to aquatic life</p> <p>P261 Avoid inhalation</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P271 Use in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be</p>	<p>H314 - Causes severe skin burns and eye damage. H402 - Harmful to aquatic life</p> <p>P260 - Do not breathe dust, vapours. P264 - Wash exposed skin thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection, face protection, protective clothing, protective gloves.</p> <p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and</p>

Material Safety Data Sheet

Nitrotyrosine ELISA Kit (Cat No. SKT-126)

			allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye and face protection P284 Wear respiratory protection R34/43/50 Harmful in contact with skin and if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin. R36/38 Irritating to eyes and skin.	keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor
U.S. Regulatory Information Sara Listed: No.				

Section 16: Other Information

Disclaimer:	For Research Use Only. Not for diagnostic, therapeutic, or other uses.
Further Information:	The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. StressMarq Biosciences Inc. shall not be held liable for any damage resulting from use or handling of this product.
Last Document Revision Date	13-Jul-2022