

Material Safety Data Sheet

Section 1: Product Information		
Product Name: NWLSS™ Nitrotyrosine ELISA		
Product Number: NWK-NTR01		
Manufacturer's Information:		
Company Name:	Northwest Life Science Specialties, LLC	
Address:	5131 NE 94th Avenue Vancouver, WA 98683	
Emergency Phone:	888-449-3091, 360-449-3091	
Section 2: Components		
<u>Part Description</u>	<u>Quantity</u>	
40X Concentrated Wash Buffer containing Tween-20:	20 mL	
10X Concentrated Dilution Buffer. Protein stabilized phosphate buffered saline containing 2-chloroacetamide preservative:	10 mL	
TMB Substrate:	22 mL	
Stop Solution containing citric acid:	22 mL	
Lyophilized Nitrotyrosine Standard. Concentration is lot specific and indicated on label.	1 mL (reconstituted volume)	
Lyophilized Biotinylated Anti-nitrotyrosine in protein stabilized buffer with 2-chloroacetamide preservative.	1 mL (reconstituted volume)	
Lyophilized concentrated Streptavidin-peroxidase conjugate with 2-chloroacetamide preservative.	1 mL (reconstituted volume)	
96 well microplates (12 X 8 well strips) pre-coated with anti-nitrotyrosine antibody:	2 each	
Section 3: Hazardous Ingredients		
<u>Known Hazardous Components:</u>	<u>CAS Number</u>	<u>Percent</u>
2-chloroacetamide	79-07-2	≤0.5
Citric acid	77-92-9	41.0
Section 4: Fire and Explosion Data		
None of the components of this product pose a significant risk in case of fire. Fire fighting media should be selected as appropriate to surrounding fire conditions. Firefighters should wear suitable protective gear to limit exposure possibilities including inhalation.		
Section 5: Stability and Reactivity		
The unopened product is stable until the date indicated on the label if stored as specified. Individual and reconstituted components are stable as specified in the product insert. There are no known hazardous reactions between these components.		

Section 6: Toxicological Information

2-chloroacetamide:	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	122 mg/kg	Oral	Rabbit
	LD50	31 mg/kg	Oral	Dog

Acute Effects:

Toxic if swallowed.
May cause sensitization by skin contact.
Moderately irritating to the skin.
Moderately irritating to the eyes.

Chronic Adverse Effects:

May include: sensitization burning in throat coughing wheezing - breathing difficulties shortness of breath/breathing difficulty headache nausea/vomiting. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs

Target Organs:

May cause damage to the following organs: lungs, digestive system, upper respiratory tract, head.

Citric Acid	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
	LD50	>5000 mg/kg	Oral	Rat

Acute Affects:

No specific hazard if swallowed.
Moderately irritating to the skin.
Moderately irritating to the eyes.

Adverse Effects:

None noted

Section 7: Preventive Measures / Exposure Control

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that laboratory personnel minimize direct skin or eye contact by following standard laboratory safety procedures when handling this product. Standard safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing.

Section 8: First Aid Measures

<u>Skin Exposure</u>	Remove any contaminated clothing. Flush affected area with copious amounts of water for at least 15 minutes then wash thoroughly. If irritation persists, contact a physician to seek medical advice.
<u>Eye Exposure</u>	If wearing contact lenses, remove them. Flush with copious amounts of water for at least 15 minutes.
<u>Ingestion</u>	If swallowed and individual is conscious, wash out mouth with water. Contact a physician to seek medical advice.
<u>Inhalation</u>	Move to fresh air. If difficulty breathing, oxygen may be administered. If breathing stops, administer artificial respiration and seek emergency medical assistance.

Section 9: Accidental Release / Spillage Measures

Ventilate area. Shut off all sources of ignition. Wear appropriate protective gear. Wipe or pick-up spilled material, place in sealed container if necessary, dispose of in accordance with federal, state, and local regulations. Wash spill site thoroughly after material pick-up is complete.

Section 10: Handling and Storage

This product should be stored as recommended on the product label. All components should be kept in tightly closed containers. Refer to the Storage section of the product insert for additional information. This product should only be handled and used by qualified, trained professional laboratory personnel.

Section 11: Other Information

This information is believed to be correct however does not claim to be all inclusive and is intended as a general guide only. Northwest Life Science Specialties, LLC shall not be held liable for any damage resulting from handling of or contact with this product or components therein. The burden of safe use of this and other products used in connection with this product rests solely with the user.