

## Section 1 – Product and Company Identification

### Manufacturer Information

Quidel Corporation	Phone:	1.800.874.1517	Web:	<a href="http://quidel.com">quidel.com</a>
10165 McKellar Court	Fax:	1.858.453.4338	E-mail:	<a href="mailto:gehs@quidel.com">gehs@quidel.com</a>
San Diego, CA 92121	Emergency # (24-Hour):	1.866.519.4752		

### Product Information

**Product Name:** QuickVue In-Line Strep A Test (Catalog #: 00343 and 00346)

**Intended Use:** The QuickVue In-Line Strep A test allows for the rapid detection of Group A Streptococcal antigen directly from patient throat swab specimens. The test is intended for professional and laboratory use as an aid in the diagnosis of Group A Streptococcal infection. This kit is for in vitro diagnostic use only.

**Components:** Kit is composed of individually pouched test cassettes, extraction solution bottles (contains Sodium Nitrite and Acetic Acid), sterile rayon-tipped throat swabs, positive control swab (heat inactivated Group A Streptococcus) and negative control swab (heat inactivated Group C Streptococcus).

## Section 2 – Hazards Identification


The hazards associated with this product are related to the **Extraction Solution** that contains a 0.2M Acetic Acid (1.2%) glass ampoule inside of a plastic bottle containing a 4M Sodium Nitrite (27.6%) solution. The Extraction Solution contains approximately 0.4 mL of Sodium Nitrite and 0.5 mL of Acetic Acid and is considered as single use only.

### Emergency Overview

Significant health effects are not anticipated from routine use of this kit when following the precautions listed within this SDS and the kit specific Package Insert. The Extraction Solution within this kit is considered hazardous as defined by the Occupational Safety and Health Administration (OSHA), the Canadian Workplace Materials Information System (WHMIS), and the European Union (EU) Directives 1999/45/EC, 67/548/EEC and/or 1272/2008/EC.

OSHA Hazards	Target Organs	GHS Classification
Oxidizer, Target Organ Effect, Toxic by Ingestion, Irritant	Blood, cardiovascular system, smooth muscle	Oxidizing liquids (Category 3) Acute Toxicity, Oral (Category 4) Eye Irritation (Category 2A) Acute Aquatic Toxicity (Category 2)

### GHS Label Elements & Precautionary Statements

Component	Pictogram	Signal Word	Hazard Statements	Precautionary Statements
Extraction Solution		Warning	H302 Harmful if swallowed. H319 Causes serious eye irritation. H401 Toxic to aquatic life.	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Supplemental Hazard Statements</b>			Avoid release to the environment.	

## Section 3 – Composition / Information on Ingredients

### Extraction Solution

Chemical Name	CAS #	EINECS #	Index #	Concentration (%)	Component Volume (mL)
Sodium Nitrite	7632-00-0	231-555-9	007-010-00-4	27.6	<0.4
Acetic Acid	64-19-7	200-580-7	607-002-00-6	1.2	<0.5

## Section 4 – First Aid Measures

### General Advice

Move out of exposure area. Consult a physician. Show this safety data sheet to the doctor in attendance.

<i>If inhaled:</i>	Move the person to fresh air and support breathing as required.
<i>In case of skin contact:</i>	Wash affected area with soap and water. Seek medical advice if irritation develops.
<i>In case of eye contact:</i>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
<i>If swallowed:</i>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice.

### Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### Indication of any immediate medical attention and special treatment needed

No data available

## Section 5 – Fire Fighting Measures

### General Advice

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to extinguish a fire.

<i>Suitable Extinguishing Media:</i>	For small fires, use dry chemical, carbon dioxide or alcohol-resistant foam.
<i>General Fire Hazards:</i>	The components within this kit will not significantly contribute to the intensity of a fire.
<i>Hazardous Combustion Products:</i>	No data available
<i>Fire Fighting Equipment:</i>	Firefighters should wear full protective gear when responding to fires.

## Section 6 – Accidental Release Measures

### General Advice

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to clean up a spill or release. Large spills of the Extraction Solution contained within this kit are unlikely.

<i>Personal Precautions (e.g., PPE):</i>	Use personal protective equipment, including protective gloves and safety glasses when cleaning up small spills of the Extraction Solution. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep all unnecessary personnel away from spill area.
<i>Recovery and Neutralization:</i>	Collect spilled material and place in a sealed container for disposal.
<i>Materials and Methods for Clean-Up:</i>	Thoroughly wash the area with soap and water after a spill or release clean-up.
<i>Environmental Precautions:</i>	Contain spill to prevent migration to public industrial / sanitary sewers or open water sources.

## Section 7 – Handling and Storage

**Specific Use:** For *in vitro* diagnostic use only – Not for use by general public.

### Precautions for Safe Handling

As with all chemical and biological substances, avoid getting the components within this kit **ON YOU** or **IN YOU**. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. Universal Precautions should be followed when using this kit.

**Conditions for Safe Storage:** To maintain efficacy, store according to the package insert instructions. Keep out of reach of the general public.

**Incompatibilities** None

## Section 8 – Exposure Controls and Personal Protection

### Exposure Limits:

Chemical Name	CAS #	Exposure Limits (US)	Exposure Limits (EU)	Exposure Limits (EU)
Acetic Acid	64-19-7	ACGIH: 10 ppm TWA 15 ppm STEL	Austria: 10 ppm STEL 5 ppm MAK	Ireland: 10 PPM STEL 5 ppm TWA
		OSHA: 10 ppm TWA	Belgium: 10 ppm STEL 5 ppm TWA	Italy: 5 ppm TWA
		NIOSH: 10 ppm TWA 15 ppm STEL	Denmark: 5 ppm Ceiling Finland: 5 ppm STEL France: 5 ppm VLCT Germany: 2 ppm TWA 2 ppm MAK 4 ppm Peak	Netherlands: 15 mg/m <sup>3</sup> STEL 8 mg/m <sup>3</sup> TWA Spain: 10 ppm VLA-EC 5 ppm VLA-EC Sweden: 5 ppm CLV Greece: 5 ppm STEL/TWA
				<b>Exposure Limits (Japan)</b>
				JSOH: 10 ppm OEL
Sodium Nitrite	7632-00-0	None Established	None Established	None Established

\*\* Refer to OSHA IMIS Code Number S236 for general information on the monitoring methods used by OSHA for Sodium Nitrite.

\*\* When activating the Extraction Solution (by breaking the glass ampoule of 1.2% Acetic Acid and mixing with the 27.6% Sodium Nitrite) the initial chemical reaction will create Nitrogen Dioxide and Nitric Oxide as reaction products.

### Exposure Controls

#### Engineering Measures

Use with adequate ventilation to maintain worker exposure below limits listed above.

#### Personal Protective Equipment

*Respiratory Protection:* None needed under normal conditions of use

### Section 8 – Exposure Controls and Personal Protection (continued)

- Hand Protection:* Handle with appropriately rated chemical resistant gloves. Gloves should be inspected prior to use. Use proper glove technique to remove gloves to avoid contact with skin. Wash hands after handling the components within this kit.
- Eye Protection:* Wear safety glasses with side shields or goggles to prevent eye contact
- Skin and Body Protection:* Use body protection appropriate for the task. A laboratory coat is recommended
- Hygiene Measures:* Handle in accordance with good industrial hygiene and safety practice. Wash hands before and at the end of the workday.

#### Environmental Exposure Controls

No special environmental controls are required

### Section 9 – Physical and Chemical Properties

Characteristic	Extraction Solution	
	Sodium Nitrite Solution (27.6%)	Acetic Acid Ampoule (1.2%)
Boiling Point (°C)	No data available	No data available
Melting Point (°C)	No data available	No data available
Specific Gravity (H <sub>2</sub> O = 1)	No data available	No data available
Vapor Pressure (mm Hg)	No data available	No data available
Vapor Density (Air = 1)	No data available	No data available
Evaporation Rate (Ether = 1)	No data available	No data available
pH	8.6	2.4
Solubility in Water	Soluble	Soluble
Appearance and Odor	Yellow with no odor	Clean with vinegar like odor

### Section 10 – Stability and Reactivity

Characteristic	Extraction Solution	
	Sodium Nitrite Solution (27.6%)	Acetic Acid Ampoule (1.2%)
Component Stability	Stable	Stable
Hazard Reaction Potential	No data available	No data available
Conditions to Avoid	None	None
Materials to Avoid	None	None
Hazardous Decomposition Products	No data available	No data available

## Section 11 – Toxicological Information

### Acute Toxicity

#### Component Analysis – LD50 / LC50

Chemical Name	CAS #	RTECS #	Information
Sodium Nitrite	7632-00-0	RA1225000	Inhalation LC50 Rat = 5.5 mg/L 4 hr Oral LD50 Rat = 85 mg/kg
Acetic Acid	64-19-7	AF1225000	Inhalation LC50 Rat = 11.4 mg/L 4 hr Oral LD50 Rat = 3310 mg/kg Dermal LD50 Rabbit = 1060 mg/kg

#### Potential Health Effects

<i>Skin Corrosion/ Irritation:</i>	No data available	<i>Inhalation:</i>	No data available
<i>Serious Eye Damage / Irritation:</i>	No data available	<i>Ingestion:</i>	No data available
<i>Respiratory Organ or Skin Sensitization:</i>	No data available		
<i>Generative Cell Mutagenicity:</i>	No data available		

### Carcinogenicity

The chemicals in the Extraction Solution are not listed as carcinogens by any of the following: ACGIH, IARC, NTP or OSHA.

### Reproductive Toxicity

No data available

### Specified Target Organ General Toxicity

**Single Exposure** No data available      **Repeated Exposure** No data available

### Aspiration Respiratory Organs Hazard

None anticipated under product use conditions.

## Section 12 – Ecological Information

<b>Toxicity</b>	No data available	<b>Mobility in Soil</b>	No data available
<b>Persistence / Degradability</b>	No data available	<b>Other adverse effects</b>	Toxic to aquatic life.
<b>Bioaccumulation</b>	No data available		
<b>PBT and vPvB Assessment</b>	No data available		

## Section 13 – Disposal Considerations

### Waste Disposal Instructions

Utilize appropriate personal protective equipment and spill control when handling wastes generated from using this kit. Do not discharge the Extraction Solution into drains, water courses or onto the ground.

### Disposal of Product and Contaminated Packaging

Dispose of waste materials, unused components and contaminated packaging in compliance with country (e.g., Canada, EU, Japan, etc.), federal, state and local regulations. If unsure of the applicable regulatory requirements, contact the authorities for information.

## Section 14 – Transportation Information

<b>U.S. Department of Transportation (DOT)</b>	Not regulated as a hazardous material.
<b>Canadian Transportation</b>	Not regulated as a hazardous material.
<b>International Air Transportation</b>	Not regulated as a dangerous good.

## Section 15 – Regulatory Information

### Regulatory Information

#### U.S. Federal Regulations

The Extraction Solution contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Sodium Nitrite (7632-00-0)

SARA 313: 1.0% de minimis concentration

CERCLA: 100 lb. final RQ; 45.4 kg final RQ

#### Acetic Acid (64-19-7)

CERCLA: 5000 lb. final RQ; 2270 kg final RQ

#### State Regulations

The following chemicals appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Sodium Nitrite	7632-00-0	Yes	Yes	No	Yes	Yes	No
Acetic Acid	64-19-7	Yes	Yes	Yes	Yes	Yes	Yes

*\*\* The components contained within this kit do not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.*

#### Canadian - WHMIS IDL



Chemical Name	CAS #	Minimum Concentration
Sodium Nitrite	7632-00-0	1%
Acetic Acid	64-19-7	1%

#### Additional Regulatory Information

**Safety, Health and Environmental regulations/legislation specific for the mixture** No data available

**Chemical Safety Assessment** No data available

#### European Directive 67/548/EEC as amended

Danger Symbol	Risk Phrases	Safety Phrases
 <b>T Toxic</b>	R25: Toxic if swallowed. R50: Very toxic to aquatic organisms.	S36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45: In case of accident or if you feel unwell, seek medical advice immediately S61: Avoid release to the environment. Refer to special instructions/safety data sheets.
 <b>N Environmentally Dangerous</b>		

### Section 16 – Other Information

**PREPARED BY:** Quidel Corporation  
 10165 McKellar Court  
 San Diego, CA 92121  
 858.552.1100

**SUPERCEDES:** June 6, 2012

**REVISIONS:** New branding and brand format; addition of GHS specific hazard pictograms.

The information above is provided in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability, fitness for a particular purpose or of any other type, expressed or implied, with respect to products described or data or information provided, and we assume no liability resulting from the use of such products, data or information. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Quidel be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages of any kind, howsoever arising, even if Quidel has been advised of the possibility of such damages.

### Key / Legend

ACGIH = American Conference of Governmental Industrial Hygienists  
 BAT = Biological Tolerance Values (Germany)  
 CAS# = Chemical Abstract Service Number  
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act (Superfund)  
 CLV = Ceiling Limit Value (Sweden)  
 DOT = Department of Transportation  
 DSL = Domestic Substances List  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 EPA = Environmental Protection Agency  
 EU = European Union  
 GHS = Globally Harmonized System  
 HMIS = Hazardous Materials Identification System  
 IARC = International Agency for Research on Cancer  
 IMO = International Maritime Organization  
 IATA = International Air Transport Association  
 LLV = Level Limit Value (Sweden)  
 MAK = Maximum Concentration Value in the Workplace  
 NDSL = Non-Domestic Substances List

NFPA = National Fire Protection Association  
 NIOSH = National Institute of Occupational Safety and Health  
 NOHSC = National Occupational Health & Safety Commission  
 NTP = National Toxicology Program  
 OEL = Occupational Exposure Limit  
 OSHA = Occupational Safety and Health Administration  
 PEL = Permissible Exposure Limit  
 PPE = Personal Protective Equipment  
 RTECS = Registry of Toxic Effects of Chemical Substances  
 SARA = Superfund Amendments and Reauthorization Act  
 STEL = Short-term Exposure Limit  
 STV = Short Term Value (Sweden)  
 TDG = Transportation of Dangerous Goods  
 TLV = Threshold Limit Value  
 TSCA = Toxic Substances Control Act  
 TWA = Time Weighted Average  
 VLA-EC = Valor Límite Ambiental Exposición de Corta Duración (Spain): The limit for short-term exposure concentration  
 VLA-ED = Valor Límite Ambiental Exposición Diaria (Spain): The limit for the daily average concentration  
 VLCT = VALEUR LIMITE D EXPOSITION A COURT TERME (Limit Value Exposure is Short Term (France)

0021RA0401D-7 (12/13)