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#### 1) Product and company identification:

Product : In Vitro Reagents Product Code : 4BNE3 Company : GENERAL BIOLOGICALS CORP. Address of the company : #6, INNOVATION FIRST ROAD, HSINCHU SCIENCE PARK, BAOSHAN TOWNSHIP, HSINCHU COUNTY 30076, TAIWAN, R.O.C. Telephone Number for emergency of the company : 886-3-5779221 ext. 254 Fax number of the company : 886-3-5779227 E mail of the company : SALE.GROUP@gbc.com.tw

## 2) Composition/information on ingredients :

## 2.1) Chemical Characterization : preparation

**2.2) Description :** Kit of components listed below with non-hazardous additions.

#	Components	Physical appaearance	96 tests 4BNE3
1	Anti-HBe Plate	Solidin aluminum foil	1 plate
2	Anti-HBe • Peroxidase Solution	Liquid in plastic bottle	1 bottle, 11 ml/btl
3	HBeAg Positive Control	Liquid in plastic bottle	1 bottle, 1.5 ml/btl
4	Anti-HBe Positive Control	Liquid in plastic bottle	1 bottle, 1.5 ml/btl
5	HB Negative Control	Liquid in plastic bottle	1 bottle, 2.0 ml/btl
6	Neutralizing Solution for Anti-HBe	Liquid in plastic bottle	1 bottle, 7 ml/btl
7	Washing Solution D (20X)	Liquid in plastic bottle	1 bottle, 58 ml/btl
8	TMB substrate Solution A	Liquid in plastic bottle	1 bottle, 12 ml/btl
9	TMB Substrate Solution B	Liquid in plastic bottle	1 bottle, 12 ml/btl
10	2N Sulfuric Acid	Liquid in plastic bottle	1 bottle, 12 ml/btl

2.3	) Dangerous	<b>Components :</b>
	, Dungerous	components .

Component	CAS No.	Ingredient	Content	S phrases	R phrases
Anti-HBe •	Not found	Human/Animal	40%	Not found	Not found
Peroxidase		Sourced Preparation			
Solution	77-86-1	Tris	<2 %	26-36	36/37/38
	1405-41-0	Gentamycin Sulfate	<0.01 %	45-36/37/39-22	61-36/38-42/43
	54-64-8	Thimerosal	<0.1 %	13-28-36-45	26/27/28-33
	Not found	Horse-radish	Trace	Not found	Not found
		peroxidase			
HBeAg	Not found	Human/Animal	100%	Not found	Not found



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Component	CAS No.	Ingredient	Content	S phrases	R phrases
Positive		Sourced Preparation			
Control	1405-41-0	Gentamycin Sulfate	<0.01 %	45-36/37/39-2	
	54-64-8	Thimerosal	<0.1 %	13-28-36-45	26/27/28-33
Anti-HBe	Not found	Human/Animal	100%	Not found	Not found
Positive		Sourced Preparation			
Control	1405-41-0	Gentamycin Sulfate	<0.01 %	45-36/37/39-2	22 61-36/38-42/43
	54-64-8	Thimerosal	<0.1 %	13-28-36-45	26/27/28-33
HB Negative	Not found	Human/Animal	100%	Not found	Not found
Control		Sourced Preparation			
	1405-41-0	Gentamycin Sulfate	<0.01 %	45-36/37/39-2	2 61-36/38-42/43
	54-64-8	Thimerosal	<0.1 %	13-28-36-45	26/27/28-33
Neutralizing	Not found	Human/Animal	100%	Not found	Not found
Solution for		Sourced Preparation			
Anti-HBe	1405-41-0	Gentamycin Sulfate	<0.01 %	45-36/37/39-2	2 61-36/38-42/43
	54-64-8	Thimerosal	<0.1 %	13-28-36-45	26/27/28-33
Washing	1405-41-0	Gentamycin Sulfate	<0.01 %	45-36/37/39-2	2 61-36/38-42/43
Solution D	7722-84-1	Hydrogen peroxide	< 0.1%	17-45-26-36/3	37/ 8-34
(20X)				39	
TMB substrate	54827-17-7	3,3'5,5'-Tetramethyl	<0.04 %	26-22-36	20/21/22-36/37/38-40
Solution A		benzidine			
	67-68-5	Dimethyl sulfoxide	<5 v/v%	26-36-23	36/37/38
	67-56-1	Methanol	5 v/v %	7-16-24-45	11-23/25
	56-81-5	Glycerol	<15	26-36	36/38
		-	v/v %		
2N Sulfuric Acid	7664-93-9	Sulfuric Acid	<6 v/v %	26-30-45	35

## 2.4) Additional Information

The components 2 to 6 contain materials of human or animal origin. Since no test method offers complete assurance that infectious agents are absent, these components should be handled as potential infectious.



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# 3) Hazards Identification :

## **3.1) Hazard description:**

Ingredient	Classification & Symbol	Routes of Entry	Health Hazards	Environmental Hazards	Fire/explosive Hazards
Human/ Animal Sourced Preparation	Potential Biohazard Biohazard	<ol> <li>Inhalation</li> <li>Skin</li> <li>contact</li> <li>Eye contact</li> <li>Ingestion</li> </ol>	Potential biohazard	Potential biohazard, should be autoclaved before disposal.	No
Health	Reactivity 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Health	Irritation Harmful or Irritant	<ol> <li>Skin contact</li> <li>Eye contact</li> <li>Ingestion</li> </ol>	<ol> <li>May cause irritation to skin. Symptoms include redness, itching, and pain.</li> <li>May cause irritation, redness, and pain.</li> <li>May be harmful, cause irritation and reddening to the mucous membranes. Symptoms may include nausea, vomiting and diarrhea. Estimated lethal dose: 50 gm.</li> </ol>	No (concentration <2 %)	No (Aqueous solution)
Gentamycin Sulfate in Solution	Irritation	<ol> <li>Skin contact</li> <li>Eye</li> </ol>	<ol> <li>May cause skin         <ul> <li>irritation: redness or             itching.             May cause systemic</li> </ul> </li> </ol>	No (concentration <0.01 %)	No (Aqueous solution)

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Thimerosal in Solution	Reactivity 0 d Harmful Harmful or Irritant	contact 3. Ingestion 1. Skin contact 2. Eye contact 3. Ingestion	<ul> <li>poisoning.</li> <li>2. May cause eye irritation/sensiti May cause systepoisoning.</li> <li>3. May be harmful irritation to the membranes. May cause systepoisoning.</li> <li>1. May be harmful skin contact.</li> <li>2. May be harmful eyes contact.</li> <li>3. Harmful by inge ORL Rat LD<sub>50</sub>:</li> <li>75mg/kg<sup>-1</sup>.</li> </ul>	emic , cause mucous emic through through	mercury	No (Aqueous solution)	
Horse-radish peroxidase Solution	Reactivity 0	<ol> <li>Skin contact</li> <li>Eye contact</li> <li>Ingestion</li> </ol>	<ul> <li>a. There is at prese information or indication of hat property.</li> <li>b. May cause irrita</li> <li>c. May cause allery reaction to a sm percentage of th population who an allergic react enzymes.</li> </ul>	zardous tion. gic all e exhibit	No (concentration is very low)	No (Aqueous solution)	



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Tetramethy I- Benzidine Solution	Harmful or irritation Harmful or Irritant	Skin contact Eye contact Ingestion	Harmful, irritation be handled as a po carcinogen.		No (concen <0.1 %)		No (Aqueous solution containing dimethyl sulfoxide and methyl alcohol)
Dimethyl Sulfoxide in Aqueous Solution	Harmful or Irritant Reactivity 0	<ol> <li>Inhalation</li> <li>Skin contact</li> <li>Eye contact</li> <li>Ingestion</li> </ol>	<ol> <li>Irritation, nause vomiting, headache, dizzin</li> <li>Irritation, allerg reactions, blisten itching, nausea, vomiting, diarrh chest pain, head drowsiness, bloo disorders.</li> <li>Irritation, blurre</li> <li>Nausea, vomitin diarrhea, stomad drowsiness.</li> </ol>	ness. ic rs, rash, nea, ache, od vision ng,	No (concen <5 v/v%		No (Aqueous solution)
Methanol Aqueous Solution	Irritation Harmful or Irritant Toxic Toxic or Very Toxic	<ol> <li>Inhalation</li> <li>Skin</li> <li>contact</li> <li>Eye contact</li> <li>Ingestion</li> </ol>	<ol> <li>Cause irritation respiratory tract Affects central 1 system, especial nerve. Cause dizziness nauseam muscle weakness, narco</li> </ol>	nervous Ily optic	No (Concer <45 v/v		No (Aqueous solution)

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Hydrogen peroxide Aqueous Solution (< 0.1%)	Very Mild Oxidizing Oxidizing	Skin contact Eye contact Ingestion	respiratory failu 2. Cause irritation 3. Cause irritation 4. Harmful if diges Affects central r system, especial nerve. Cause dizziness nauseam muscle weakness, narco respiratory failu Can produce bli (100 ml can be t No	to skin. to eyes. sted. nervous lly optic , e osis, re. ndness	No (concentrations)	on No (Aqueous solution)
Dilute Sulfuric Acid Aqueous Solution		<ol> <li>Inhalation</li> <li>Skin contact</li> </ol>	<ol> <li>May cause seve irritation of the respiratory tract sore throat, coug</li> </ol>	with	No (concentrati <6 v/v %)	ion (Aqueous solution)
(<6 v/v %)	Corrosive	3. Eye contact	-			

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Page     Page 7 of 15       4. Ingestion     4. Ingestion       5. Cancer hazard. Mutation.     2. May Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Aspiration may lead to pulmonary edema. May cause systemic effects.       3. Causes skin burns. Continued contact can cause tissue necrosis. May cause skin rash, and cold and clammy skin with cyanosis or pale color.       4. Engestion
4. Ingestion 5. Cancer hazard. Mutation. 4. Ingestion 5. Cancer hazard. Mutation. 5. Cancer hazard. May cause skin rash, and cold and clammy skin with cyanosis or pale color. 4. Causes chemical conjunctivitis and corneal damage.
4. Ingestion 5. Cancer hazard. Mutation. 4. Ingestion 5. Cancer hazard. Mutation. 5. Cancer hazard. Mutation. 4. Ingestion 5. Cancer hazard. Mutation. 4. Ingestion 5. Cancer hazard. Mutation. 5. Cancer hazard. 4. Causes skin burns. Continued contact can cause tissue necrosis. May cause skin rash, and cold and clammy skin with cyanosis or pale color. 4. Causes eye burns. May cause chemical conjunctivitis and corneal damage.
permanent damage to the digestive tract. Causes gastrointestinal

# 3.2) Classification System :

The classification is according to GLOBALLY HARMONISED SYSTEM FOR THE CLASSIFICATION AND LABELLING OF CHEMICALS (May 2001) and NFPA hazard labels.



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#### 4) First-aid Measures :

General Information	No special measures required.				
Inhalation	Supply fresh air. Seek medical advice in case of complaints.				
Ingestion	Rinse mouth thoroughly with water. Seek medical advice in case of omplaints.				
Contact with eyes	Wash with copious amounts of water. Seek medical advice in case of complaints.				
Contact with skin	Wash thoroughly with water. Seek medical advice in case of complaints.				
Protection of First-aiders	Wearing of protective gloves and avoiding the generation of aerosols.				

## 5) Fire Fighting Measures :

Suitable extinguishing agents : CO<sub>2</sub>, powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

**Special Protective Equipment :** No special measures required. **Specific Hazards :** 

Components	Specific Hazards
1. Plate	CO.
2.Anti-HBe • Peroxidase Solution	CO, NOx, SOx, Hg.
3.HBeAg Positive Control	CO, NOx, SO2, Hg.
4.Anti-HBe Positive Control	CO, NOx, SO2, Hg.
5.HB Negative Control	CO, NOx, SOx, Hg.
6.Neutralizing Solution for Anti-HBe	CO, NOx, SO2, Hg.
5. Washing Solution D (20X)	CO.
6. TMB substrate Solution A	CO, NOx, SOx.
7. TMB Substrate Solution B	CO.
8. 2N Sulfuric Acid	SOx.

#### 6) Accidental Release Measures:

**Personal Precautions :** Wear protective gloves and avoid the generation of aerosols.

Keep unprotected persons away.

Ensure adequate ventilation.

**Environmental Precautions :** Treated (inactivated) as biological hazardous contamination. **Methods for Cleaning Up :** 



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Components	Methods for Cleaning Up
2.Anti-HBe • Peroxidase Solution	Inactivated with Sodium Hypochlorite
3.HBeAg Positive Control	Solution prior to clean with plenty of water.
4.Anti-HBe Positive Control	
5.HB Negative Control	
6.Neutralizing Solution for Anti-HBe	
7. Washing Solution D (20X)	Clean with plenty of water.
8. TMB substrate Solution A	
9. TMB Substrate Solution B	
10. 2N Sulfuric Acid	

#### 7) Handling and Storage :

## 7.1) Handling :

Technical Measures : No special measures required.Precautions : Handled as biohazards.Wear protective gloves and avoid the generation of aerosols.Keep TMB Solution A away from fire sources.Specific Safe Handling Advice:No special measures required.

## 7.2) Storage :

**Technical Measures :** No special measures required. **Storage conditions :** Store in  $2 \sim 8 \,^{\circ}\text{C}$ . **Incompatible products :** No special measures required. **Packaging Materials :** No special measures required.

#### 8) Exposure Control/Personal Protection:

#### 8.1) Engineering Measures :

Additional Information about design of technical facilities : No, see item 7).

#### 8.2) Specific Control Parameters:

**Ingredients with limit values that require monitoring at the workplace :** No. **Additional Information :** No special measures required.



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## 8.3) Personal Protective equipment:

Respiratory Protection : No special measures required.Hand Protection : Wear protective gloves.Eye Protection : No special measures required.Skin and Body Protection : Wear protective gown.

8.4) Hygiene Measures : Handled as biohazards.

## 9) Physical and chemical Properties :

## **9.1) Physical Properties:**

Component	Form	Color	Odor	m.p.		b.p.	Flash Point	Self-ignition
1.		c c	0		N/	N/	N/A	N/A
plate	olid	olorless	dorless	А		А		
2.		Y	N	-	Ν	No	Not	Not
HRPO	iquid	ellow	early	ot		t	dete	deter
Conjugate			odorless		de		rmined	mined
Solution				termined		ermined		
3.		N N	N		Ν	No	Not	Not
U	iquid	early	early	ot determin	led	t determined	determined	deter
Control		colorless	odorless					mined
4.		e e	N		Ν	No	Not	Not
Positive Control	iquid	Ab colorless	early	ot		t	dete	deter
		e	odorless		de		rmined	mined
		Ag		termined		ermined		
		у						
		ellow						
5.	1	N N	N		N	No	Not	Not
•	iquid	early	early	ot	1	t 1.	dete	deter
Solution D (20X)		colorless	odorless	termined	de	ermined	rmined	mined
		I N	N		N	No	Not	Not
6. TMB substrate	iquid	early	early	ot	IN	t INO	Not dete	deter
Solution A	iquiù	colorless	odorless		de	l det	rmined	mined
SolutionA		coloness	00011688	termined		ermined	mineu	mmeu
7.		N N	N		N	No	Not	Not
	ianid				ΤN	t		deter
	iquiu				de	det		
Solution D			04011000					
TMB Substrate Solution B	iquid	early colorless	early odorless	ot termined	de	t det ermined	dete rmined	det mined



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Component	Form	Color	Odor	m.p.	b.p.	Flash Point	Self-ignition
8.	]	N	N	N	No	Not	Not
2N Sulfuric	iquid	early	early	ot	t	dete	deter
Acid	_	colorless	odorless	de	det	rmined	mined
				termined	ermined		

## 9.2) Chemical Properties:

	Component	Danger of explosion	Density			Organic Solvents Content	Water content
	1. plate	o N		N/A	N/A	0	0
Conjugate	2. HRPO Solution	o	mined	Not deter	e	0	Aqueou s Solution
Control	3. Negative	o	mined	Not deter	e	0	Aqueou s Solution
	4. Positive Control	o	mined	Not deter	e	0	Aqueou s Solution
Solution D	5. Washing (20X)	o N	mined	Not deter	e	0	Aqueou s Solution
Solution A	6. TMB substrate	o	mined	Not deter	e	<50%	s Solution
Solution B	7. TMB Substrate	o N	determine	Not d	Miscibl	0	Aqueou s Solution
Acid	8. 2N Sulfuric	o N	mined	Not deter	Miscibl	0	Aqueou s Solution

# 10) Stability and Reactivity:

# **10.1)** Thermal decomposition/Conditions to be avoid:

Decomposition will not occur if used and stored according to the package insert.

## **10.2) Materials to be avoided:**

Please use the kit in accordance with the package insert.

## **10.3) Dangerous Reactions:**



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No dangerous reactions known.

## **10.4) Dangerous decomposition products:**

Components	Dangerous decomposition products
1. Plate	CO.
2. HRPO Conjugate Solution	CO, NOx, SOx, Hg.
3. Negative Control	CO, NOx, SO2, Hg.
4. Positive Control	CO, NOx, SOx, Hg.
5. Washing Solution D (20X)	CO.
6. TMB substrate Solution A	CO, NOx, SOx.
7. TMB Substrate Solution B	CO.
8. 2N Sulfuric Acid	SOx.

## **11) Toxicological Information :**

# **11.1) Acute Toxicity :**

Acute toxicity will not occur if used and stored according to the package insert.

## 11.2) Local Effects :

	Components		Local Effects
	1. Plate		No.
	2. HRPO Conjugate		May cause irritation to skin, mucous membranes
Solution		and eyes.	
	3. Negative Control		May cause irritation to skin, mucous membranes
		and eyes.	
	4. Positive Control		May cause irritation to skin, mucous membranes
		and eyes.	
	5. Washing Solution		No.
D (20X)	-		
	6. TMB substrate		May cause irritation to skin, mucous membranes
Solution A		and eyes.	
	7. TMB Substrate		May cause irritation to skin, mucous membranes
Solution B		and eyes.	
	8. 2N Sulfuric Acid	May cause	e irritation to skin, mucous membranes, eyes and
		respiratory	v tract.
			May cause chemical burns to the respiratory tract.



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# 11.3) Sensitization :

Components	Sensitization
1. Plate	No.
2. HRPO Conjugate Solution	May cause sensitization to mucous membranes and eyes.
3. Negative Control	May cause irritation to skin, mucous membranes and eyes.
4. Positive Control	May cause irritation to skin, mucous membranes and eyes.
5. Washing Solution D (20X)	No.
6. TMB substrate Solution A	May cause irritation to mucous membranes and eyes.
7. TMB Substrate Solution B	No.
8. 2N Sulfuric Acid	No.

# 11.4) Chronic Toxicity or Long Term Toxicity:

Components	Chronic Toxicity or Long Term Toxicity
1. Plate	No.
2. HRPO Conjugate	May cause systemic poison.
Solution	
3. Negative Control	May cause systemic poison.
4. Positive Control	May cause systemic poison.
5. Washing Solution	No.
D (20X)	
6. TMB substrate	May affects central nervous system.
Solution A	
7. TMB Substrate	No.
Solution B	
8. 2N Sulfuric Acid	May cause systemic toxicity with acidosis.

# 11.5) Carcinogenicity/Mutagenicity:

Components	Carcinogenicity/Mutagenicity
1. Plate	Not a carcinogen/mutagen.
2. HRPO Conjugate Solution	Not a carcinogen/mutagen.
3. Negative Control	Not a carcinogen/mutagen.
4. Positive Control	Not a carcinogen/mutagen.
5. Washing Solution D (20X)	Not a carcinogen/mutagen.
6. TMB substrate Solution A	May be a carcinogen/mutagen.
7. TMB Substrate Solution B	Not a carcinogen/mutagen.
8. 2N Sulfuric Acid	IARC Category 1



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## 11.6) Additional Toxicological Information:

Not found.

## 12) Ecological Information (Possible environmental Effects behavior and fate):

2N Sulfuric Acid : Water hazard class 2: hazardous for water.Other liquid components : Water hazard class 1: slightly hazardous for water.Do not allow undiluted liquid components or large quantities of the liquid components to reach ground water, water course or sewage system.

## 13) Disposal Considerations:

Components	Recommended Disposal Methods for components/contaminated components/used components.		
1. Plate	Treated as potential infectious materials before disposal.		
2. HRPO Conjugate Solution	Treated as potential infectious materials before disposal.		
3. Negative Control	Treated as potential infectious materials before disposal.		
4. Positive Control	Treated as potential infectious materials before disposal.		
5. Washing Solution D (20X)	Diluted with large quantities of water.		
6. TMB substrate Solution A	No special measures required.		
7. TMB Substrate Solution B	No special measures required.		
8. 2N Sulfuric Acid	Neutralized with base and/or diluted with large quantities of		
	water.		
Specimens	Treated as potential infectious materials before disposal.		

#### **14) Transport Information**

## 14.1) Land Transport ADR/RID :

2N Sulfuric Acid : ADR/RID Class: 8 Corrosive Substances UN Number : UN2796 Packaging Group : II Shipping Name : Corrosive liquid, acidic, inorganic, n.o.s., sulfuric acid. Other components : ADR/RID Class: None

## 14.2) Maritime Transport IMDG :

2N Sulfuric Acid : IMDG Class : 8 UN Number : UN2796



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Packaging Group : II

Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s., sulfuric acid. Other components : IMDG Class : None

#### 14.3) Air Transport ICAO-Ti and IATA\_DGR :

2N Sulfuric Acid : ICAO/IATA Class : 8 UN Number : UN2796 Packaging Group : II Shipping Name : Corrosive liquid, acidic, inorganic, n.o.s., sulfuric acid. Other components : ICAO/IATA Class : None

#### **15) Regulations:**

## **15.1) Product Related Hazard Information:**

Observe the general safety regulations when handling the kit, its components and specimens.

**15.2) Labeling according to EU guidelines/NFPA chemical Hazard Labels:** The kit including its components will be classified and marked in accordance with EU Directives/NFPA Chemical Hazard Labels.

#### **15.3) Information about limitation of use:**

The kit and its components are for in vitro diagnosis use and for professional use only.

15.4) Code letter, risk phrases, safety phrases and hazard designation of the kit and its components :

Please see 2.3) and 3.1) of this MSDS.

## **16) Other Information:**

This MSDS is based on our present knowledge. However, it is intended only as a guide to the appropriate precautionary handling of the kit and its components for professional use. Individuals receiving this MSDS must exercise their independent judgment in determining its appropriateness for a particular purpose