





SAFETY DATA SHEET (SDS)**SECTION 1: IDENTIFICATION OF PRODUCT (MIXTURE) AND SUPPLIER**

Product Name:	GS HIV Combo Ag/Ab EIA
Product Number:	12009860 (960 tests) 12009911 (4800 tests) Catalog number(s) for replacement, separately purchased components that can be obtained for use with this kit, and which are covered by this SDS include: 26181, 26182, 26220, 26221, 26222, 26223, 26224, 26225, 12009798, 12009799 and 26228 (refer to Section 2).
Intended Use:	The GS HIV Combo Ag/Ab EIA is an enzyme immunoassay kit for the simultaneous qualitative detection of Human Immunodeficiency Virus (HIV) p24 antigen and antibodies to HIV Type 1 (HIV-1 Groups M and O) and HIV Type 2 (HIV-2) in human serum or plasma. This kit is intended as an aid in the diagnosis of HIV-1 and/or HIV-2 infection, including acute or primary HIV-1 infection. The assay may also be used as an aid in the diagnosis of HIV-1 and/or HIV-2 infection in pediatric subjects (i.e, children as young as 2 years of age). The GS HIV Combo Ag/Ab EIA is intended for manual use and for use with the Bio-Rad EVOLIS Automated Microplate System. Results from the GS HIV Combo Ag/Ab EIA cannot be used to distinguish between the presence of HIV-1 p24 antigen, HIV-1 antibody, or HIV-2 antibody in a sample. The GS HIV Combo Ag/Ab EIA is not intended for routine use in screening blood or plasma donors , as the effectiveness of this test for use in the screening of these donors has not been established. However, in urgent situations where traditional licensed blood donor screening tests are unavailable or their use is impractical, this assay can be used as a blood donor screening assay.
Manufactured by:	Bio-Rad Laboratories, Inc.
Address:	6565 185th Avenue NE Redmond, WA 98052-5039, USA
Website:	www.bio-rad.com
Phone Number:	1-800-2-BIORAD (1-800-224-6723); or (425) 881-8300 (daytime PT)
SDS e-mail contact:	ro-sds@bio-rad.com
Technical Information Contacts:	Bio-Rad provides a toll free line for technical assistance, available 24 hours a day, 7 days a week. In the United States of America and Puerto Rico, call toll free 1-800-2BIORAD (1-800-224-6723). Outside the U.S.A., please contact your regional Bio-Rad office for assistance. <i>Refer to section 16 for non-US local Bio-Rad agent contact information.</i>
Authorized Representative in the European Community:	FRANCE: Bio-Rad 3 boulevard Raymond Poincaré 92430 Marnes-la-Coquette Phone: +33 (0) 1 47 95 60 00 / Fax: +33 (0) 1 47 41 91 33 [fds-msds.fr@bio-rad.com]
Emergency Phone Number:	This SDS is listed with CHEMTREC 1-800-424-9300 (US) / 001-703-527-3887 (international – can be called collect). Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

SECTION 2: HAZARDS IDENTIFICATION -- HAZARDOUS COMPONENTS

This test kit should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety. The following information is furnished for those product hazardous constituents that require regulatory control or disclosure at the concentration found in the product. Refer to Section 16 for the full text of any solely abbreviated or coded hazard statements provided below and for the Key / legend to abbreviations and acronyms

Component *	Content
R1. Microwell Strip Plate (10 or 50 plates)	<ul style="list-style-type: none"> - Microwell plate coated with monoclonal antibodies to HIV p24 (mouse) and HIV-1 and HIV-2 antigens. - Potential residue of ProClin 300 used as a production preservative (aspirated prior to drying strips). - Tabs are labeled "JJ" - Contains sealed pelletized desiccant packet: There are no health hazards associated with intact desiccant container; however, health hazards could result from dusts generated if the packet is cut, split or otherwise compromised and is crushed.
C0. Negative Control 2 or 10 vials (1.5 mL) <i>Catalog No. 26220</i>	<ul style="list-style-type: none"> - Normal human serum/plasma that is non-reactive for HBsAg, HIV-1 Ag and antibodies to HIV and HCV (amber / yellow liquid). - Preserved with 0.16% ProClin 950 containing 0.016% active ingredient: 9.5-9.9% 2-methyl-4-isothiazolin-3-one (C₄H₅NOS); CAS# 2682-20-4, EC No 220-239-6. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
C1. HIV-1 Ab Positive Control 2 or 10 vials (1.5 mL) <i>Catalog No. 26221</i>	<ul style="list-style-type: none"> - Heat-treated human serum/plasma containing HIV-1 antibody, non-reactive for HBsAg and antibody to HCV (yellow or green aqueous solution). - Preserved with 0.16% ProClin 950 containing 0.016% active ingredient: 9.5-9.9% 2-methyl-4-isothiazolin-3-one (C₄H₅NOS); CAS# 2682-20-4, EC No 220-239-6. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
C2. HIV-2/O Ab Positive Control 2 or 10 vials (1.5 mL) <i>Catalog No. 26222</i>	<ul style="list-style-type: none"> - Murine monoclonal antibody to HIV-2 and Rabbit antibody to HIV-1 Group O diluted in normal human serum/plasma; non-reactive for HBsAg, and antibodies to HCV (yellow or green aqueous solution). - Preserved with 0.16% ProClin 950 containing 0.016% active ingredient: 9.5-9.9% 2-methyl-4-isothiazolin-3-one (C₄H₅NOS); CAS# 2682-20-4, EC No 220-239-6. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
C3. HIV Ag Positive Control 2 or 10 vials (1.5 mL) <i>Catalog No. 26223</i> <div style="text-align: center;">  WARNING </div>	<ul style="list-style-type: none"> - Purified HIV-1 viral lysate antigen inactivated with heat and a chaotropic agent, in synthetic diluent (bovine) (blue-green aqueous liquid). - Preserved with 0.5% ProClin 300 (0.015% active ingredient), EC Index No 613-167-00-5 with CAS# 55965-84-9. GHS \ US HCS \ EC CLP Classification: WARNING; H317, H412; P273, P280; P302 + P352, P333 + P313; P501. - Contains < 0.1% Tartrazine [FD&C Yellow #5, Acid Yellow 23; C₁₆H₉N₄O₉S₂•3Na]; CAS# 1934-21-0; EC 217-699-5. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
C4. Cutoff Calibrator 4 or 20 vials (1.7 mL) <i>Catalog No. 26224</i>	<ul style="list-style-type: none"> - Normal human serum/plasma that is non-reactive for HBsAg, HIV-1 Ag and antibodies to HIV and HCV (amber / yellow liquid). - Preserved with 0.16% ProClin 950 containing 0.016% active ingredient: 9.5-9.9% 2-methyl-4-isothiazolin-3-one (C₄H₅NOS); CAS# 2682-20-4, EC No 220-239-6. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.

Component *	Content
<p>R6. Conjugate 1 4 or 20 bottles (10 mL) Catalog No. 26225</p>  <p>WARNING</p>	<ul style="list-style-type: none"> - Biotinylated polyclonal antibodies (sheep) to HIV p24 Ag. in a buffer with protein stabilizers (bovine and ovine) and yellow-green dye. - Preserved with 0.5% ProClin 300 (0.015% active ingredient), EC Index No 613-167-00-5 with CAS# 55965-84-9. GHS \ US HCS \ EC CLP Classification: WARNING; GHS07; H317, H412; P273, P280; P302 + P352, P333 + P313; P501. - < 0.1% Bromocresol Purple [C₂₁H₁₆Br₂O₅S], CAS# 115-40-2, EC No 204-087-8. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
<p>R7a. Conjugate 2 Concentrate (11X) 1 or 5 vials (12 mL) Catalog No. 12009798</p>  <p>WARNING</p>	<ul style="list-style-type: none"> - Peroxidase-labeled Streptavidin and peroxidase-labeled HIV-1 and HIV-2 antigens in a buffer with protein stabilizers (bovine and caprine) and green dye. - Preserved with 0.5% ProClin 300 (0.015% active ingredient), EC Index No 613-167-00-5 with CAS# 55965-84-9. GHS \ US HCS \ EC CLP Classification: WARNING; GHS07; H317, H412; P273, P280; P302 + P352, P333 + P313; P501. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
<p>R7b. Conjugate 2 Diluent, 1 or 5 bottles (120 mL) Catalog No. 12009799</p>  <p>WARNING</p>	<ul style="list-style-type: none"> - Buffer (pH neutral) with protein stabilizers (bovine and ovine) and red dye (red aqueous liquid). - Preserved with 0.5% ProClin 300 (0.015% active ingredient), EC Index No 613-167-00-5 with CAS# 55965-84-9. GHS \ US HCS \ EC CLP Classification: WARNING; GHS07; H317, H412; P273, P280; P302 + P352, P333 + P313; P501. - Diluted 0.1% Amaranth [FD&C Red #2; C₂₀H₁₁N₂O₁₀S₃•3Na], CAS# 915-67-3, EC No 213-022-2. [IARC Group 3]. Not subject to US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration. - Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0, EC No 215-778-9. Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.
<p>R8. Substrate Buffer, 2 or 10 bottles (120 mL) Catalog No. 26181</p>	<ul style="list-style-type: none"> - Dilute citric acid (C₆H₈O₇, CAS# 79-92-9, EC No 201-069-1) / sodium acetate buffer, (pH ~ 4.0, clear liquid). - < 5% dimethylsulfoxide [DMSO - C₂H₆OS], CAS# 67-68-5, EC No 200-644-3. - < 0.1% hydrogen peroxide [H₂O₂], CAS# 7722-84-1, EC No 231-765-0. <p>Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.</p>
<p>R9. Chromogen (11X) 2 or 10 bottles (12 mL) Catalog No. 26182</p>	<ul style="list-style-type: none"> - ≤ 0.25% 3,3',5,5' tetramethylbenzidine dihydrochloride [TMB- C₁₆H₂₀N₂•2HCl], CAS# 207738-08-7, EC No 264-769-6. - ≤ 0.04 N hydrochloric acid [~ 0.3% HCl, CAS# 7647-01-0, EC No 231-595-7] solution (pH ~ 1.5, clear liquid). <p>Not subject to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements in this product mixture and concentration.</p>

* Replacement, optional and separately purchased component Catalog numbers are provided in this column where available.

Markings according to the United Nations (UN) Globally Harmonized System (GHS), United States Hazard Communication Standard (US HCS), European Commission (EC) 2008/1272/EC (EC CLP) guidelines and analogous GHS-based global regulations:

This product has been conservatively classified and labeled in accordance with *United Nations (UN) GHS, United States Hazard Communication Standard (US HCS)*, related *European Commission (EC) 2008/1272/EC (EC CLP) guidelines* and applicable analogous GHS-based global regulations. The following regulated hazardous chemical concentrations are found in product component(s):

Component C3, R6, R7a and R7b - 0.5% ProClin 300 [$\leq 0.015\%$ active ingredients – reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one (C₄H₄CINOS; CAS# 26172-55-4, EC No 247-500-7) and 2-methyl-2H -isothiazol-3-one (C₄H₅NOS; CAS# 2682-20-4, EC No 220-239-6) (3:1)], EC Index No 613-167-00-5 with CAS# 55965-84-9.

Comprehensive GHS Based Classification: Skin Sensitizer Category 1



Label(s):

Signal Word: **WARNING**

Label Hazard Statements:

- H317** May cause an allergic skin reaction.
- H412** Harmful to aquatic life with long lasting effects.

Precautionary Statements (statements for product intended use and as codified on the product label):

- P273 Avoid release to the environment.
- P280 Wear protective gloves / protective clothing / eye protection / face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P501 Dispose of contents and container in accordance to local, regional, national and international regulations.

Supplemental Precautionary Statements (additional precautions to consider relative to specific customer use):

- P261 Avoid breathing mist / vapors/vapours / spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The following information is furnished for those product hazardous constituents that require regulatory control or disclosure regardless of the concentration found in the product. Note that the information here is often based on data from the chemical raw material safety data sheet and literature (LD₅₀, exposure limits, etc.). Chemical constituents that do not require regulatory disclosure are not generally included here. This product contains a significantly diluted concentration in an aqueous solution, thus the assessment below has not considered the dilution reduction effect on the hazard. That hazard communication information is provided in Section 2 above. Some components were tested at the concentration found in the kit. In that case, the assessment is provided for the chemical dilution tested and the tested concentration will be provided at the beginning of the *Chemical Ingredient Data/Information* box. Refer to section 16 for the full text of any *Comprehensive GHS-based Classification* statements coded below, for the list of sources utilized in the assessment and for the key / legend to abbreviations and acronyms.

Chemical Ingredient Data / Information

Chemical Ingredient: Dimethyl-sulfoxide [DMSO]

Chemical concentrations found in this product: **≤ 5% in in R8, an aqueous solution**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 67-68-5 (100%)	LD ₅₀ (oral-rat): 14500 mg/kg
EC No: 200-644-3 (100%)	LC ₅₀ (inhalation-rat): 1600 mg/m ³ (4 hr)
RTECS#: PV6210000 (100%)	LD ₅₀ (skin-rabbit): >5000 mg/m ³
Index No: NA (100%)	LC ₅₀ (96 hr-fish): NE
Chemical Formula: C ₂ H ₆ OS (100%)	Molecular weight: 78.13 g/mol (100%)
Flash point: 188-192°F / 86.7-88.9°C (100%)	
Flammable limits: LEL/LFL is 3.5%; UEL/UFL is 42% vv in air	

Synonyms/Trade Names: Dimethyl sulfoxide; Dimethyl sulphoxide; Dimexide; Dipirartril-tropico; DMS-70; DMS-90; DMSO; Dolicur; Domo; Dromisol; Durasorb; A 10846; Deltan; Demeso; Demasorb; Demavet; Demsodrox; Dermasorb; Gamasol 90; Hyadur; Infiltrina; M 176, Methane, sulfinylbis-; Methylsulfinylmethane; Somipront; SQ 9453, Topsy; NSC-763; Rimso-50; Sulfinylbis(methane); Syntexan

Raw Material GHS / US HCS / EC CLP Classification (100%):

No Pictogram required

WARNING

Fla. Liq. Cat. 4
H227
P210, P280, P370 + P378, P403 + P235, P501

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]

Chemical Ingredient: Citric acid

Chemical concentrations found in this product: **≤ 1.5% w/v in R8**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 77-92-9 (100%)	LD ₅₀ (oral-rat): 5400 mg/kg
EC No: 201-069-1 (100%)	LC ₅₀ (inhalation-rat): NE
RTECS#: GE7350000 (100%)	LD ₅₀ (skin-rabbit): >2000 mg/kg
Index No: NA (100%)	
Toxicity to fish mortality LC ₅₀ - Leuciscus idus melanotus - 440 mg/l - 48 h - Method: OECD Test Guideline 203	
Chemical Formula: C ₆ H ₈ O ₇ (100%)	pH value: 1.8 at ca.50 g/l at 25 °C (77 °F)
Molecular weight: 192.12 g/mol (100%)	

Synonyms/Trade Names: Aciletten; Anhydrous citric acid; Citretten; Citro; 2-Hydroxy-1,2,3-propanetricarboxylic acid; beta-Hydroxytricarballic acid; Kyselina citronova

Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - OECD Test Guideline 404

Serious eye damage/eye irritation: Eyes - rabbit - Irritating to eyes. - OECD Test Guideline 405

Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Raw Material GHS / US HCS / EC CLP Classification (100%):

WARNING

Acute Tox. – skn Cat. 5, Skin Irrit. Cat. 1, Eye Irrit. Cat. 2A
H313, H316, H319
P264, P280, P305 + P351 + P338, P337 + P313

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]



Chemical Ingredient Data / Information

Chemical Ingredient: Tartrazine Solution

Chemical concentrations found in this product: **< 0.1% in C3, an aqueous solution**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 1934-21-0 (100%)	LD ₅₀ (oral-mouse): 12750 mg/kg
EC No: 217-699-5 (100%)	LC ₅₀ (inhalation-rat): NE
RTECS#: UQ6400000 (100%)	LD ₅₀ (skin-rabbit): NE
Chemical Formula: C ₁₆ H ₉ N ₄ O ₉ S ₂ •3Na	LC ₅₀ (96 hr-fish): NE
Molecular weight: 534.36 g/mol (100%)	
Synonyms/Trade Names: Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate; Acid Yellow 23; Yellow no. 4; FD&C Yellow #5	

Raw Material GHS / US HCS / EC CLP Classification (100%):

DANGER!

Resp. Sens. Cat. 1, Skin Sens. Cat. 1

H317, H334

P261, P272, P280, P285, P302 + P352, P304 + P341, P333 + P313, P342 + P311, P363, P501

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]



Chemical Ingredient: ProClin 300

Chemical concentrations found in this product: **0.5% (0.015% active ingredient) in C3, R6, R7a and R7b**
[Potential residue dried on plates in R1]

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

Hazardous ingredient concentration in raw material:

60-100% Glycols;

1-5% Mixture (3:1) of 5-Chloro-2-methyl-4-isothiazolin-3-one (C₄H₅NOS; CAS# 2682-20-4, EC# 220-239-6)
 and **2-Methyl-2H-isothiazol-3-one** (C₄H₄CINOS; CAS# 26172-55-4, EC# 247-500-7)
 CAS#: 55965-84-9, Index No: 613-167-00-5.

RTECS#: NE

LD₅₀ (oral-rat): 862 mg/kg

LD₅₀ (skin-rabbit): 2,800 mg/kg

LC₅₀ (inhalation-rat): NE

LD₅₀ (skin-rabbit): NE

pH value: 4.1 at 100 g/L

Flash Point: 244° F / 118° C (concentrated solution)

Synonyms/Trade Names: 5-Chloro-2-methyl-4-isothiazolin-3-one solution; Kathon 300; Isothiazolinone chloride solution

Skin corrosion/irritation - rabbit – Corrosive (concentrated solution)

Serious eye damage/eye irritation - rabbit - Corrosive to eyes (concentrated solution)

Respiratory or skin sensitization - May cause allergic skin reaction (concentrated solution)

OECD TG 429 (LLNA (2000a)): SI ≥ 3 for all concentrations; EC3 value of ≤ 2 (0.003%) – Positive, Skin Sens. Cat. 1A

OECD TG 429 (LLNA (2000b)): SI ≥ 3 from 70ppm; EC3 value of ≤ 2 (0.007%) – inconclusive

GPMT (2000a): OECD TG 416, GLP – Negative

GPMT (2000b): OECD TG 416, GLP – Positive

Buehler (1982): GLP 9/15 animals responded to an induction concentration of 0.01% - Positive, Skin Sens. Cat. 1A

Open Epicutaneous Test (2001) - Positive, Skin Sens. Cat. 1

Raw Material GHS / US HCS / EC CLP Classification (100%):

DANGER!

Acute Tox. – oral Cat. 4, Skin Corr. Cat. 1B, Eye Damage Cat. 1, Skin. Sens. Cat.1, Aquatic Acute Cat. 1, Aquatic Chron. Cat. 1

H302, H314, H317, H410

P261, P264, P270, P272, P273, P280, P301 + P312 + P330, P301 + P330 + P331,

P303 + P361 + P353, P305 + P351 + P338, P310, P333 + P313, P363, P391, P405, P501

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]



Chemical Ingredient Data / Information

Chemical Ingredient: Hydrochloric acid

Chemical concentrations found in this product: **≤ 0.04N (< 0.4% v/v HCl) in R9**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 7647-01-0 (concentrate solution)	LD ₅₀ (oral, rat): 700 mg/kg (unconfirmed)
EC No: 231-595-7 (concentrate solution)	LC ₅₀ (inhalation-rat): 3124 ppm/1H
Index No: 017-002-01-X (concentrate solution)	LD ₅₀ (skin-rabbit): > 5010 mg/kg (unconfirmed)
RTECS#: MW4025000 (concentrate solution)	Fish LC ₅₀ – Bluegill/Sunfish – 282 mg/l – 48 h
Chemical Formula: HCl (concentrate solution)	
Molecular weight: 36.46 g/mol (concentrate solution)	pH value: highly acidic (30-50% concentrated solution)
Synonyms/Trade Names: Acide chlorhydrique; Acido cloridrico; Anhydrous hydrochloric acid; Chloorwaterstof; Chlorohydric acid; Chlorowodor; Chlorwasserstoff; Hydrochloride; Hydrogen chloride; Hydrogen chloride; Muriatic acid; Spirits of salt	
LC ₅₀ (male rat): 1405 ppm (4-hour exposure; head-only); cited as 2810 ppm (1-hour exposure; head-only) (30-50% solution)	
LC ₅₀ (male rat): 1562 ppm (4-hour exposure; whole-body); cited as 3124 ppm (1-hour exposure; whole-body) (30-50% solution)	
Skin corrosion/irritation: Skin - rabbit - Causes burns. (30-50% solution)	
Serious eye damage/eye irritation: Eyes - rabbit - Corrosive to eyes (30-50% solution)	
IARC: Group 3: Not classifiable as to its carcinogenicity to humans (30-50% solution)	

Raw Material GHS / US HCS / EC CLP Classification (100%):

DANGER!

Skin Corr. Cat. 1B, Eye Damage Cat. 1, STOT SE Cat. 3, Met. Corr. Cat. 1
H290, H314, H335
P234, P261, P264, P271, P280, P301 + P330 + P331, P303 + P361 + P353, P304 + P340,
P305 + P351 + P338, P310, P363, P390, P403 + P233, P405, P406, P501.



[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]

Chemical Ingredient: 3,3',5,5'-Tetramethylbenzidine, Dihydrochloride

Chemical concentrations found in this product: **< 0.3% w/v in R9, an aqueous solution**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 207738-08-7 (54827-17-7 Free base) (100%)	LD ₅₀ (ipr-mouse): 135 mg/kg
EC No: 264-769-6 (100%)	LD ₅₀ (oral-rat): NE
RTECS#: DV2300000 (100%)	LC ₅₀ (inhalation-rat): NE
Chemical Formula: C ₁₆ H ₂₀ N ₂ •2HCl (100%)	LD ₅₀ (skin-rabbit): NE
Molecular weight: 313.27 g/mol (100%)	LC ₅₀ (96 hr-fish): NE
Synonyms/Trade Names: TMB	

Raw Material GHS / US HCS / EC CLP Classification (100%): Not a dangerous substance according to GHS, US HCS, EC CLP and analogous global GHS-based regulatory requirements.

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]

Chemical Ingredient Data / Information

Chemical Ingredient: ProClin 950

Chemical concentrations found in this product: **≤ 0.16% (< 0.015% active ingredient) in C0, C1, C2, and C4**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

Hazardous ingredient concentration in raw material: the concentrated preservative contains:

5-10% of **2-methyl-4-isothiazolin-3-one** (active ingredient).

CAS#: 2682-20-4 (active ingredient)

LD50 (oral-rat): No data available

EC No: 220-239-6 (active ingredient)

LC50 (inhalation-rat): No data available

RTECS#: NE

LD50 (skin-rabbit): No data available

Chemical Formula: C₄H₅NOS (active ingredient)

pH value: 3.0-6.0

Raw Material GHS / US HCS / EC CLP Classification (100%):

DANGER!

Acute Tox. – inh. Cat. 3, Skin Corr. Cat. 1B, Eye Damage Cat. 1,

Skin Sens. Cat. 1, Aquatic Acute Cat. 1, Aquatic Chron. Cat. 1

H314, H317, H331, H410,

P261, P264, P271, P272, P273, P280, P301 + P330 + P331, P303 + P361 + P353,

P305 + P351 + P338, P310, P403 + P233, P405, P501



[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]

Chemical Ingredient: Gentamicin sulfate

Chemical concentrations found in this product: **< 0.01% from a 50 mg/ml Solution in C0, C1, C2, C4, R6 R7a, and R7b (an aqueous solution)**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 1405-41-0 (100%)

LD₅₀ (oral-rat): > 5000 mg/kg

EC No: 215-778-9 (100%)

LC₅₀ (inhalation-rat): NE

RTECS#: LY2625000 (100%)

LD₅₀ (skin-rabbit): NE

Synonyms/Trade Names: Gentamicin sulfate salt; Garamycin; Gentiomycin C

Raw Material GHS / US HCS / EC CLP Classification (10%):

DANGER!

Resp. Sens. Cat. 1A, Skin Sens. Cat. 1, Rep. Tox. Cat. 2


H317, H334, H361

P261, P272, P280, P285, P302 + P352, P304 + P341, P308 + P313, P333 + P313, P342 + P311, P363, P501



[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]

Biological Ingredient	Data / Information
Animal proteins	This material is of animal origin (fetal bovine / and bovine / and goat/caprine / and rabbit / and monkey / and porcine / and avian / and murine / and equine / and burro / and sheep/ovine / and mouse / and pig / and rat / and guinea pig, etc.) and may be a potential contact irritant. Hazard Unknown. Handle as potentially infectious. The chemical, physical and toxicological properties have not been thoroughly investigated. Handle appropriately with the requisite Good Laboratory Practices, <i>Standard</i> and <i>Universal Precautions</i> . Dispose of this material in accordance with local, regional, national and international regulation.

Biological Ingredient	Data / Information
<p>Human blood derivatives</p> 	<p>Human source material used in the preparation of the Negative Control (C0) and Cutoff Calibrator (C4), and as a diluent for the HIV-1 Ab Positive Control (C1) and HIV-2/O Ab Positive Control (C2), has been tested and found nonreactive for Hepatitis B surface antigen (HBsAg), and antibodies to Hepatitis C virus (HCV Ab) and human immunodeficiency virus (HIV-1 and HIV-2).</p> <p>Human source material, containing HIV-1 and HIV-2 human antibody used in the preparation of the HIV Ab Positive Controls (C1 and C2) has been heat-treated. It has been tested and found nonreactive for Hepatitis B surface antigen (HBsAg) and antibodies to Hepatitis C virus (HCV Ab).</p> <p>The HIV-1 viral lysate used in the HIV Ag Positive Control (C3) has been inactivated using a chaotropic agent and heat.</p> <p>No known test method can offer complete assurance that HIV, hepatitis B or C virus or other infectious agents are absent. Moreover, patient blood samples tested with this kit represent an unknown, heightened hazard. Employ <i>Standard</i> and <i>Universal Precautions</i> when handling these reagents and all human blood or specimens. Handle as if capable of transmitting infectious disease, in a Biosafety Level 2 lab, applying the guidelines from the current CDC/NIH <i>Biosafety in Microbiological and Biomedical Laboratories</i> or WHO <i>Laboratory Biosafety Manual</i> or equivalent. Avoid splashing, spills and the generation of aerosols. Secure in secondary containment with proper biohazard labeling. Do not inhale mists or aerosols; avoid contact with skin, eyes, mucous membranes and clothing. In case of contact with eyes, immediately rinse with copious water and seek medical attention. Employ decontamination procedures with appropriate decon agent or disinfectant (typically a 1:10 dilution of household bleach, 70-80% ethanol or isopropanol, an iodophor like 0.5% Wescodyne Plus (EPA Reg. #4959-16), an o-phenylphenol/amyphenol such as 0.8% Vesphene (EPA Reg. #1043-87), or equiv.) before discarding any materials utilized or returning equipment used to general use. Dispose of this material in accordance with local, regional, national and international regulations. Handle appropriately with the requisite Good Laboratory Practices, <i>Standard</i> and <i>Universal Precautions</i>. Persons handling blood samples should have the option of receiving hepatitis B vaccination.</p>

NA: Not Applicable.

NE: Not Established or Unknown (unable to locate data); typically for concentrate form unless otherwise specified.

Related product information:

- ◆ Refer to section 16 for the full text of any *Comprehensive GHS-based Classification* statements, for the list of sources utilized in the assessment and for the key / legend to abbreviations and acronyms.
- ◆ No significant adverse health effects are expected by any route for the miscellaneous **Tween 20** [C₅₈H₁₁₄O₂₆, CAS #9005-64-5], **hydrogen peroxide** [H₂O₂, CAS# 7722-84-1, ≤ 0.1% v/v in R8], salts, sugars, buffers, water, animal sera, and other chemicals found in the HRP conjugate, buffers with protein stabilizers, dyes, and sodium acetate solutions, in the kit volumes and/or concentrations present [chemical or dilution is not subject to US HCS, EC CLP or other GHS-based hazard labeling].
- ◆ **Component R1** contains < 0.1% of **Cobalt (II) Chloride** [CAS# 7646-79-9, EC No. 231-589-4], which is classified as an IARC Group 2B (possible human carcinogen) and EU Category 2 carcinogen, and **silica quartz** [CAS# 14808-60-7, EC No. 238-87-4], which in dust form is classified as an ACGIH Class A2 (suspected human carcinogen) and IARC Group 1 (carcinogenic to humans). These materials are pelletized and sealed in a desiccant packet within the plate pouch, which is unlikely to generate significant dust under normal conditions of use and is thus not typically considered a health hazard. However, health hazards could result from dusts generated if the packet is cut, split or otherwise compromised and a significant number of pellets were crushed to a powder form. Keep the desiccant packet intact as received in the microwell plate component package.
- ◆ According to the concept of *Universal Precautions* (29 CFR 1910.1030), all human blood and certain human body fluids must be treated as if known to be infectious for HIV, HBV and other bloodborne pathogens. No known test method can offer complete assurance that products derived from human blood will not transmit infection; thus, they should be handled as though they contain infectious agents. Furthermore, individual patient samples being tested represent a heightened, unknown hazard. Aerosolization/inhalation, contact and mucous membrane exposure should be avoided during sample and kit handling. Consider equipment that potentially comes in contact with human source material as contaminated until appropriately decontaminated.
- ◆ Do not eat, drink or smoke when using this product.
- ◆ Wear protective gloves / protective clothing / eye protection / face protection. Take off contaminated clothing and wash before reuse.

SECTION 4: EMERGENCY FIRST AID MEASURES

Health Effects:	Symptoms of over exposure may include headache, dizziness and congestion. Skin contact may result in dermatitis and may cause allergic skin reaction upon repeated exposure. May be toxic to developing fetus, generally at concentrations and volumes that greatly exceed that of this kit.
Eye Contact:	Flush eyes with copious water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers while flushing with water. OBTAIN MEDICAL ATTENTION.
Skin Contact:	Remove contaminated clothing. Flush skin with copious water and wash affected area with soap and water. If blood-to-blood contact occurs, or if more severe symptoms develop, consult a physician.
Inhalation:	Remove person from exposure area to fresh air. If breathing becomes difficult, immediately call for emergency medical assistance. Treat symptomatically and supportively. Generally, this aqueous product is not a significant inhalation hazard in the kit volumes and concentrations present.
If Swallowed:	If ingested, rinse out mouth thoroughly with water, provided the person is conscious, and OBTAIN MEDICAL ATTENTION. Call a physician or the local poison control center. Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.
Notes to Physician	According to the OSHA Bloodborne Pathogens Standard (29 CFR 1910.1030), Universal Precautions apply. Persons handling human blood source samples should be offered hepatitis B vaccination prior to working with human source material.

SECTION 5: FIREFIGHTING MEASURES

Flammable Properties:	This product is aqueous based so is not considered flammable or combustible.
Extinguishing Media:	Use extinguishing media appropriate for the surrounding fire.
Hazardous Combustion Products:	May emit toxic oxides of carbon and nitrogen under fire conditions.
Special Firefighting Procedures:	Conventional firefighting full protective equipment (with NIOSH-approved self-contained breathing apparatus) and procedures appropriate for the surrounding fire should be sufficient.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- ◆ Avoid direct contact with skin, eyes, mucous membranes and clothing by wearing appropriate lab Personal Protective Equipment (PPE), including gloves, lab coat and eye/face protection.
- ◆ In the event of a hazardous material spill, contain the spill if it is safe to do so and immediately move to a safe area, free from potential aerosols, to decontaminate and/or safely remove any contaminated clothing, as necessary. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Isolate the hazard area and ventilate if appropriate. Ensure that appropriate spill cleanup materials and PPE are available and used.
- ◆ Prevent material from entering sewers, waterways or confined spaces.
- ◆ Follow established laboratory policy and applicable WHO/CDC/NIH biosafety and/or WHO/OSHA hazardous material and/or equivalent guidelines for appropriate hazardous chemical and/or biological material spill response and cleanup. Avoid release to the environment.
- ◆ Wear appropriate PPE. Immediately, and on-site if possible: Decontaminate Biohazard/Human Source Material spills, which should always be treated as potentially infectious, including the area, spill materials and any contaminated surfaces or equipment. Utilize an appropriate chemical decon agent or disinfectant that is effective for the known or potential pathogens relative to the samples involved (commonly a 1:10 dilution of bleach, 70-80% Ethanol or Isopropanol, an iodophor (such as Wescodyne Plus), or a phenolic, etc.).
- ◆ Clean the spill area with water and wipe dry. Spills can also be absorbed with an appropriate inert material (e.g. spill pillows, absorbent pads, etc.), which are secured in an appropriate, labeled, sealed container. Material used to absorb the spill may require hazardous material waste disposal. Infectious, Chemical and Laboratory wastes must be handled and discarded in accordance with all local, regional and national regulations.
- ◆ Refer to Sections 8 and 11 for more specifics.

SECTION 7: HANDLING AND STORAGE INFORMATION

Handling:	<p>This test kit should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Follow proper good laboratory practices and safety guidelines for handling chemical, biological and laboratory hazards.</p> <p>Do not smoke, eat, or drink in areas where patient samples and kit reagents are handled. Wash your hands after use. Wear appropriate personal protective equipment (PPE), including gloves, lab coat or equivalent and eye/face protection.</p> <p>Keep containers tightly closed; avoid splashing, spills and the generation of aerosols.</p> <p>Handle all human source material, specimens and equipment used to perform the operations as though they were capable of transmitting infectious disease, as per <i>Standard</i> and <i>Universal Precautions</i>.</p> <p>All personal protective equipment should be removed before leaving the work area. Refer to Section 8 for more specifics.</p> <p>Avoid release to the environment. Do not allow undiluted product hazardous chemical ingredient or large quantities of it to reach ground water or water course.</p> <p>Consult with your Environmental Health & Safety Office for assistance.</p>
Storage:	Store according to product and label instructions (generally at 2-8 °C).
Caution, consult accompanying documents. Read and follow all the precautions and warnings in the kit product instructions for use.	
For <i>in vitro</i> diagnostic use.	

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES

Control Parameters – Component chemicals with with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Chemical	CAS-No.	Value	Control parameter	Update	Basis
Hydrochloric acid	7647-01-0	TLV – C	2 ppm	2007-01-01	USA. ACGIH Threshold Limit Values (TLV)
		PEL – C	7 mg/m ³ * 5 ppm	2006-02-28	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		REL – C	7 mg/m ³ 5 ppm	2005-149 [SEP-2007]	USA. National Institute for Occupational Safety and Health (NIOSH)
		IDLH	50 ppm		
<p>* The value in mg/m³ is approximate. Ceiling limit is to be determined from breathing-zone air samples. Remarks: TLV CARCINOGENICITY DESIGNATION A4 – Not Classifiable as a Human Carcinogen: Inadequate data on which to classify the substance as a human and/or animal carcinogen.</p>					
Hydrogen peroxide	7722-84-1	TWA – TLV	1 ppm	2007-01-01	USA. ACGIH Threshold Limit Values (TLV)
		TWA – PEL	1.4 mg/m ³ * 1 ppm	1997-08-04	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		REL	1.4 mg/m ³ 1 ppm	2005-149 [SEP-2007]	USA. National Institute for Occupational Safety and Health (NIOSH)
		IDLH	75 ppm		
<p>* The value in mg/m³ is approximate Remarks: TLV CARCINOGENICITY DESIGNATION A3 – Animal Carcinogen: Substance is carcinogenic in laboratory animals under conditions that are not considered relevant to worker exposure. Available human studies and evidence suggest that the substance is not likely to cause cancer in humans except under unusual or unlikely routes or levels of exposure. Worker exposure to an A3 carcinogen should be controlled to levels as low as reasonably achievable below the TLV.</p>					
Dimethyl sulfoxide	67-68-5	TWA-WEEL	250 ppm	2014	USA: Workplace Environmental Exposure Levels
		MAK	50 ppm (160 mg/m ³)	2011	GERMANY:

Chemical	CAS-No.	Value	Control parameter	Update	Basis
<i>Source: CCOHS CHEMINFO 2013, RTECS September 2013 Update and Raw Material Vendor Safety Data Sheet</i>					

Additional information: The lists that were valid during the creation were used as basis.

The following personal protective equipment (PPE) is recommended to prevent blood or other potentially infectious or hazardous materials from reaching the user's work or street clothes, skin, mouth, mucous membranes and eyes, or hazardous inhalation, under normal conditions of use and for the time during which the protective equipment is utilized:

Ventilation:	Adequate lab ventilation is required. It is recommended that users handle potentially infectious human source material / patient samples in a biological safety cabinet (BSC), expressly if aerosols might be generated.
Eye / Face Protection:	Wear ANSI approved safety glasses, goggles or face shield with safety glasses or goggles. Contact lenses should not be worn when handling lab hazards.
Protective Gloves:	Suitable gloves must be worn at all times when handling kit reagents or patient samples to provide skin protection from splash and intermittent contact. Synthetic gloves, such as Nitrile, Neoprene and Vinyl, are recommended because they are sturdy, effective and contain no natural latex ingredients associated with latex glove allergic reactions. Disposable (single use) gloves should be changed often and never be reused. Wash hands thoroughly after removing gloves.
Protective Clothing:	Wear a lab coat, clinic jacket, gown, apron and/or smock. Disposable clothing is strongly recommended when handling biohazardous material. If reusable clothing is used, procedures for handling potentially infectious laundry under the OSHA Bloodborne Pathogens Standard (29 CFR 1910.1030) are required.
Respiratory Protection:	Do not breathe mist / vapors/vapours / spray.
Other:	All personal protective equipment should be removed before leaving the work area and placed in an appropriately designated area or container for storage, processing, decontamination or disposal. Protective coverings such as plastic wrap, aluminum foil, or imperviously-backed absorbent pads used to cover equipment and/or surfaces must be removed and replaced if they become overtly contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Variable, refer to section 2; generally aqueous liquids. Exceptions are the solid microtiter plate and related materials.		
Odor/odour:	No applicable information was found.	Odor/odour threshold:	Not Established.
pH:	Most of the liquid chemical components are between pH 6 and 8, Exceptions are the following acidic solutions: Substrate Buffer at pH ~4 and Chromogen at pH ~1.5.		
Boiling point:	Undetermined.	Melting point:	Undetermined.
Flash point:	Not Applicable. Flammable limits: LEL/LFL is <u>Not applicable</u> ; UEL/UFL is <u>Not applicable</u> .		
Evaporation rate:	No applicable information was found.		
Fire hazard:	Although the components have not been tested for fire hazard and explosion data, being water-based, they are not expected to be fire hazards, but some of the kit packaging materials may burn under fire conditions.		
Vapor/vapour pressure:	No applicable information was found.		
Vapor/vapour density:	No applicable information was found.		
Relative density:	Variable; approximately 1.		
Solubility:	The liquid chemical components are soluble in water.		
Partition coefficient (n-octanol/water):	No applicable information was found.		
Auto igniting:	Product is not known to be self-igniting.		



GS HIV Combo Ag/Ab EIA

[Catalog # 12009860, 12009911]

Decomposition temperature:	No applicable information was found.
Viscosity:	No applicable information was found.
Danger of explosion:	Product is not known to present an explosion hazard.
Molecular mass:	Mixture.
No Other Standard Characteristics applicable to the identification or hazards of the product are known.	
<i>Source: Raw Material vendor SDS, CCOHS databases and/or regulatory research</i>	

SECTION 10: STABILITY AND REACTIVITY INFORMATION

NOTE: Chemical reactions that could result in a hazardous situation (e.g. generation of flammable or toxic chemicals, fire or detonation) are listed here. Although not intended to be complete, an overview of important reactions involving common chemicals is provided to assist in the development of safe work practices.

Chemical Stability / Reactivity:	Components are stable with no known inherent significant reactivity, except the acidic solutions, which may have an exothermic reaction with certain chemicals, particularly strong bases and reducing agents.
Conditions and/or Materials to Avoid:	None known when used as intended.
Hazardous Decomposition Products:	May emit toxic oxides of carbon and nitrogen under fire conditions.
Hazardous Polymerization:	Has not been reported to occur.

SECTION 11: TOXICOLOGICAL INFORMATION -- GENERAL COMPOSITE

Refer to Sections 2 and 3 for the kit component concentrations. The composite toxicological information for this product is:

Acute Health Effects

Acute Toxicity:	May be detrimental in contact with skin, if swallowed, and to eyes upon contact; in case of contact with eyes, immediately rinse with copious water and seek medical attention.
Primary Irritant Effect:	May slightly irritate eyes or skin, depending on amount and contact time.
Skin Corrosivity / Metal Corrosion:	The EIA Chromogen (11X) solution in this product has been evaluated with the CORROSITEX test method to determine its corrosive potential. The results of this testing classified this solution as non-corrosive.
Serious Eye Damage / Irritation:	May slightly irritate eyes depending on amount and contact time.
STOT-Single Exposure:	No applicable information was found.
Aspiration Hazard:	No applicable information was found.
Other Acute Health Effects:	No significant other acute health effect known.

Biohazard Potential:

Inactivated Human Immunodeficiency Virus, type 1 (HIV-1), though verified to be non-infectious [inactivation evidenced by a $\geq 99\%$ reduction in RT activity (example: 10^{-5} viable $\geq 10^{-1}$ disrupted) by standard RT assay], should be handled with *Standard and Universal Precautions*, as if capable of transmitting infectious disease. The HIV-1 Ab Positive Control (2) was heat-treated to inactivate the HIV. Human sera in reagents were tested and found non-reactive for Hepatitis B surface antigen and antibodies to HCV (the **Negative Control (C0)**, **HIV-1 Ag Positive Control (C3)** and **Cutoff Calibrator (C4)** are also non-reactive for antibodies to HIV). No known test method can offer complete assurance that HIV, hepatitis B or C virus or other infectious agents are absent. Moreover, patient blood samples tested with this kit represent an

unknown, heightened hazard. Employ *Standard and Universal Precautions*; handle these reagents, all human blood and specimens as if capable of transmitting infectious disease, in a Biosafety Level 2 laboratory, applying the guidelines from the current CDC/NIH *Biosafety in Microbiological and Biomedical Laboratories*, WHO *Laboratory Biosafety Manual* or equivalent. Persons handling blood samples should have the option of receiving hepatitis B vaccination.

Chronic Toxicity

Respiratory or Skin Sensitization:	Contains a small volume of very dilute, potentially skin-contact sensitizing preservatives, ProClin and Gentamicin sulfate (an antimicrobial biocide that is also a photosensitizer); prolonged or repeated exposure may cause allergic reaction in certain sensitive individuals. Though the potential for an allergic response is greatly reduced by the dilution, sensitization threshold is unknown; thus handle accordingly.
Carcinogenicity:	Component R1 contains < 0.1% Cobalt (II) chloride (CAS# 7646-79-9, IARC Group 2B and EU Category 2 carcinogen) and silica quartz (CAS# 14808-60-7, ACGIH class A2 and IARC Group 1 carcinogen). Keep the desiccant packet intact as received in the component package.
Germ Cell Mutagenicity:	No applicable information was found.
Reproductive hazard:	Reasonably anticipated to be a reproductive toxin. May cause harm to unborn child. Gentamicin sulfate is known to the State of California to cause developmental toxicity (teratogen), classified under the generic class of aminoglycosides. (Designation is for concentrated gentamicin sulfate, which is diluted to 0.005% in kit components.)
STOT-Repeated Exposure:	No applicable information was found.

Additional Toxicological Information: To the best of our knowledge, the chemical, physical and toxicological properties have NOT been thoroughly investigated for some of the component chemicals and/or mixtures.

SECTION 12: ECOLOGICAL INFORMATION

This product was not tested. The following assessment is based on information for the ingredients.

Ecotoxicity:	<p>Concentrated Hydrochloric acid [CAS# 7647-01-0] *: Fish LC₅₀ - Bluegill/Sunfish – 282 mg/l - 48 h</p> <p>Concentrated 2-methyl-4-isothiazolin [CAS# 2682-20-4] **: Fish LC₅₀ – Lepomis macrochirus (Bluegill) – 0.30 mg/l [min. 0.24 mg/l, max. 0.32 mg/l] – 96 h Fish LC₅₀ – Oncorhynchus mykiss (rainbow trout) – 0.19 mg/l [min. 0.13 mg/l, max. 0.31 mg/l] – 96 h Daphnia EC₅₀ - Daphnia pulex (Water flea) – min. 0.71 mg/l, max. 1.8 mg/l – 48 h</p> <p>Concentrated ProClin 300 (Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)) [CAS# 55965-84-9]**: Fish LC₅₀ – Lepomis macrochirus (US EPA FIFRA 72-1, flow-through mm) – 0.28 mg a.s. /L – 96 h Fish LC₅₀ – Oncorhynchus mykiss (OECD TG 203, static) – 0.22 mg a.s. /L – 96 h Fish LC₅₀ – Oncorhynchus mykiss (OECD TG 204, flow-through mm) – 0.09 mg a.s. /L – 14 d Fish 36-d NOEC – Pimephales promelas (US EPA FIFRA 72-4, flow-through mm) – 0.02-0.12 mg a.s. /L Fish 28-d NOEC – Oncorhynchus mykiss (OECD TG 215, semi-static nom) – 0.098 mg a.s. /L Daphnia EC₅₀ – Daphnia magna (US EPA 72-2, flow-through mm) – 0.16 mg a.s. /L – 48 h Daphnia EC₅₀ – Daphnia magna (US EPA 72-4, semi-static mm) – 0.10 mg a.s. /L – 21 d</p> <p>Concentrated Citric acid [CAS#: 77-92-9]*: Toxicity to fish mortality LC₅₀ – Leuciscus idus melanotus – 440 mg/l – 48 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates: static test – Daphnia magna (Water flea) – 1,535 mg/l - 24 h</p> <p>* Source: Raw Material Vendor Safety Data Sheets, RTECS and/or CCOHS Cheminfo **Source: PAN Pesticides Database – Chemical Studies on Aquatic Organisms [obtained 3/7/2012]</p>
Persistence and degradability:	No information found.
Bioaccumulation potential:	No information found.
Mobility in soil:	No information found.

PBT and vPvB assessment:	No information found.
Other adverse effects:	The acidic corrosive Components R8 (pH 4) and R9 (pH 1.5) may be hazardous for drinking water and toxic to aquatic organisms by pH modification if not neutralized. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of hazardous and/or laboratory wastes, product or packaging must be conducted in accordance with all applicable local, regional, national and international regulations. This section specifies the general and United States RCRA requirements. Processing, use or contamination of the kit components may change waste management requirements and options. Contact your Environmental Health & Safety Office for your specific disposal procedures.

Recommended Product Disposal:

- All *human source* and *other potentially infectious material* must be appropriately decontaminated or disposed of as infectious material; check your applicable ordinances accordingly.
- **Acidic Chromogen** (pH ~1.5), and **Substrate Buffer** (pH ~4.0) wastes should be neutralized to pH 6-8 for safe sewer disposal; check your local and regional ordinances accordingly. In addition, if the final pH measures ≤ 2 , it requires disposal as a corrosive material in a RCRA approved waste facility (or equivalent); the US RCRA Waste disposal Code for this waste, if not neutralized, is D002, check your applicable ordinances accordingly.

Do not allow undiluted product or large quantities of it to reach ground water or water course.

Recommended Unclean Packaging Disposal: Dispose in accordance with all applicable local, regional, national and international regulations.

SECTION 14: TRANSPORT INFORMATION

Shipping of product, packaging and waste must be conducted in accordance with all applicable local, regional, national and international regulations. Processing, use or contamination of the kit components may change shipping requirements and options. Contact your Environmental Health & Safety Office for your specific shipping procedures.

Recommended Unused Product Multi-Modal Transportation: According to US DOT, IMDG, IATA and UN “Model Regulations”, the product must be transported as follows: No known transport restrictions.

Note: The **EIA Chromogen (11X)** solution in this product has been evaluated with the CORROSITEX test method to determine its corrosive potential and any packing group classification. The results of this testing classified this solution as non-corrosive for shipping purposes.

Recommended Used Product Hazardous Waste Disposal Transportation: Air and land transportation information for discarded kit components and waste from this product when used as intended is:

Acidic Chromogen is at pH ~1.5, thus any un-neutralized discarded product component or waste generated from its use resulting in a corrosive liquid (pH ≤ 2 or an pH ≥ 12.5 per Method 9040 (USEPA Publication SW-846) or Corrodes Steel (NACE Standard TM-01-69)) must be transported as follows:

Proper Shipping Name and Description: **Waste Corrosive Liquid n.o.s.**
 Hazard Class or Division: **8**
 UN ID Number: **UN 1760**
 Packing group **III**



Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: REGULATORY INFORMATION

Composite HMIS Rating: Health: 2 Flammability: 0 Reactivity: 0

Carcinogenicity Categories:

Component R1 contains < 0.1% **Cobalt (II) chloride** (CAS# 7646-79-9, IARC Group 2B and EU Category 2 carcinogen) and **silica quartz** (CAS# 14808-60-7, in dust form is an ACGIH class A2 and IARC Group 1 carcinogen) in a pelletized desiccant sealed packet. Keep the desiccant packet intact as received in the component package.

National Regulations – Other Domestic / Foreign Laws:

Hazard communication compliance – This SDS contains the required information for preparation in accordance with the following GHS-based global regulations:

1. **United States** – Occupational Safety Health Administration *Hazard Communication Standard 29 CFR 1910.1200 (US HCS)*
2. **Taiwan** – OSHA Published National Standard **CNS 15030 Classification and Labelling of Chemicals**
3. **Singapore** – **SS 586 - 2 : 2014**
4. **Russia** – **GOST 31340-2013, GOST 32419-2013, GOST 32423-2013, GOST 32424-2013, GOST 32425-2013, R 50.1.102-2014, R 50.1.101-2014**
5. **People's Republic of China** – National Standard **GB/T 17519-2013, GB 30000-2013**
6. **New Zealand** – *Hazardous Substances and New Organisms Act (HSNO)*
Composite HSNO Hazard Class: Subclass 6.5 Category B (contact sensitizers)
7. **Mexico** – **Standard NOM-018-STPS-2015, NMX-R-019-SCFI-2011**
8. **Korea** – **MoEL-Public Notice 2016-19, 2013-37 Standard for classification and labeling of chemical substances and MSDS.**
9. **Japan** – Industrial Safety and Health Law (ISHL) National Standard **JIS Z7252, JIS Z7253**
10. **European Commission (EC)** – applicable **CLP** related regulations (**2010/453/EC, 2008/1272/EC, 2006/1907/EC** etc.)
11. **Canada** – Hazardous Products Regulations (HPR) / Standard *Workplace Hazardous Materials Information System (WHMIS-GHS)*
Canadian Standard for the hazard classification criteria for this product.
Composite WHMIS Hazards: Skin Sensitization
12. **Brazil** – Regulation **ABNT NRB 14725**
13. **Australia** – Code of Practice *Preparation of Safety Data Sheets for Hazardous Chemicals* under Section 274 of the **Work Health and Safety (WHS) Act**.
14. Analogous GHS-based global regulations

Inventory status

Country(s) or region Inventory name	In Compliance (yes/no)*
Australia – Australian Inventory of Chemical Substances (AICS)	Yes
Canada – Domestic Substances List (DSL)	Yes
Canada – Non-Domestic Substances List (NDSL)	Yes
China – Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Union – European Inventory of Existing Commercial Chemical Substances (EINECS) or European List of Notified Chemical Substances (ELINCS)	Yes
Japan – Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea – Existing Chemicals List (ECL)	Yes
New Zealand – New Zealand Inventory	Yes
Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan – inventory CSNN	Yes
United States & Puerto Rico – Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Regulation (EC) No. 1907/2006 (REACH):

Chemicals included in the Candidate List of Substances of Very High Concern (SVHC): None

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

United States SARA:

SARA 302 (extremely hazardous substance) components: The following components are subject to reporting levels established by SARA Title III, Section 302: **Hydrogen peroxide**, CAS# 7722-84-1; Revision Date: 1993-04-24

SARA 313 components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): WARNING: This Product Contains a Chemical(s) Known to the State of California to Cause Reproductive Toxicity.

Chemicals known to cause reproductive Toxicity: *Gentamicin Sulfate* CAS# 1405-41-0; classified under the generic class of Aminoglycosides. (Listed October 1, 1992)

SECTION 16: OTHER INFORMATION

Hazard statement abbreviation(s):

Acute Tox. – oral.	Acute toxicity – ingested (swallowed)
Acute Tox. – skn.	Acute toxicity – skin contact
Acute Tox. – inhl.	Acute toxicity - inhaled
Resp. Sens.	Respiratory sensitization
Skin Sens.	Skin sensitisation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Eye Damage.	Serious eye damage
Eye Irrit.	Eye irritation
Rep. tox.	Reproduction toxicant
STOT SE	Specific target organ toxicity - single exposure
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Met. Corr	Corrosive to Metals
Fla. Liq.	Flammable liquid
Cat.	Category
H227	Combustible liquid.
H290	May be corrosive to metals.
H302	Harmful if swallowed
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P234	Keep only in original container.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P261	Avoid breathing mist / vapors/vapours / spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER or doctor/ physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant stainless steel container with a resistant inner liner.
P501	This material and its container must be disposed of as hazardous waste.
P501	Dispose of contents / container to an approved waste disposal plant.
P501	Dispose of this material in accordance with local, regional, national and international regulation.
Caution	Contains human source material and inactivated pathogen. Handle as if capable of transmitting potentially infectious agents (<i>Universal Precautions</i>).

This test kit should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety.

For *in vitro* diagnostic use.

Chemical safety assessment: Mixtures covered in this SDS were classified using the US HCS, EC CLP and/or UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Fifth edition unless otherwise specified.

Sources of key data used to compile the Safety Data Sheet:

Raw Material Vendor Safety Data Sheets
United Nations (UN) Globally Harmonized System (GHS)
United States OSHA Hazard Communication Standard (US HCS) 1910.1200
Canadian Workplace Hazardous Materials Information System (WHMIS)
Mexican Standard (NOM-018-STPS-2015, NMX-R-019-SCFI-2011) [regulatory translation and summaries]
European Commission (EC) Regulations 2008/1272/EC, 2010/453/EC, 2006/1907/EC (EC CLP)
Australian Code of Practice – Preparation of Safety Data Sheets for Hazardous Chemicals (Section 274 of the *Work Health and Safety Act*)
New Zealand – Hazardous Substances and New Organisms Act (HSNO)
The People’s Republic of China National Standard GB/T 17519-2013, GB 30000-2013 [regulatory translation if available and summaries]
Taiwan OSHA Published National Standard CNS 15030 [regulatory translation if available / summaries]
Korean MoEL-Public Notice 2016-19, 2013-37 [regulatory translation if available and summaries]
Japanese Industrial Standard JIS Z7252, JIS Z7253 [regulatory translation if available and summaries]
Registry of Toxic Effects of Chemical Substances (RTECS)
Canadian Centre for Occupational Health and Safety (CCOHS) *CHEMINFO* databases, etc.
International Agency for Research on Cancer (IARC)
American Conference of Governmental Industrial Hygienists (ACGIH)
Occupational Safety and Health Administration, U.S. Department of Labor (OSHA)
National Toxicity Program (NTP)
National Institute for Occupational Safety and Health (NIOSH)
World Health Organization. Laboratory Biosafety Manual
CDC/NIH Biosafety in Microbiological and Biomedical Laboratories
PAN Pesticides Database – Chemical Studies on Aquatic Organisms
Australian Inventory of Chemical Substances (AICS) Listing
California Proposition 65

Key / legend to abbreviations and acronyms used in the safety data sheet:

ACGIH – American Conference of Governmental Industrial Hygienists
AICS – Australian Inventory of Chemical Substances
ANSI – American National Standards Institute
CAS – Chemical Abstracts Service
CCOHS – Canadian Centre for Occupational Health and Safety
CDC – Centers for Disease Control, USA
CNS – Central Nervous System
DGSMA – Dangerous Goods Safety Management Act
DOT – Department of Transportation, USA
EC₅₀ – half maximal effective concentration
EC CLP – European Commission regulation for the Classification, Labeling and Packaging of chemical substances and mixtures
EU – European Union
GHS – Globally Harmonized System
HNOC – Hazard Not Otherwise Classified
HSNO – Hazardous Substances and New Organisms Act 1996 (New Zealand)
IARC – International Agency for Research on Cancer
IATA – International Air Transport Association
ICAO - International Civil Aviation Organization
IDLH – Immediately Dangerous to Life or Health
IMDG – International Maritime Dangerous Goods
IPCS – International Programme on Chemical Safety
ISHA – Industrial Safety and Health Act
LC₅₀ – median lethal concentration, 50%

LD₅₀ – median lethal dose, 50%
 MSDS – Material Safety Data Sheet
 NIH – National Institute of Health
 NIOSH – National Institute for Occupational Safety and Health
 NTP – National Toxicity Program
 OEL – Occupational Exposure Limit
 PEL – Permissible Exposure Limit
 ppm – parts per million
 RTECS – Registry of Toxic Effects of Chemical Substances
 SDS – Safety Data Sheet
 STEL – Short Term Exposure Limit
 STOT – Specific Target Organ Toxicity
 TCCA – Toxic Chemical Control Act
 TLV/TWA – Threshold Limit Value / Time-Weighted Average
 UN – United Nations
 US EPA – United States Environmental Protection Agency, USA
 US HCS – Hazard Communication Standard, USA
 US OSHA – Occupational Safety and Health Administration, U.S. Department of Labor
 WHMIS – Workplace Hazardous Materials Information System, Canada
 WHO – World Health Organization (United Nations)

Additional information: The lists that were valid during the creation were used as basis.

This Revision: New Safety Data Sheet (SDS).

Preparation date: Refer to the date in the footer.

Bio-Rad Laboratories:

Department issuing SDS: Environmental Health and Safety.

Contact for general SDS information: Seattle Operations, Environmental Health & Safety, 6565 185th Ave. NE, Redmond, WA 98052, USA, Phone: 425-881-8300 (8 am to 5 pm PT), ro-sds@bio-rad.com

Customer support contact: Clinical Diagnostics Group, 4000 Alfred Nobel Drive, Hercules, CA 94547, USA
 Phone: 1-800-224-6723, www.bio-rad.com/diagnostics

Emergency Contact (24/7/365) – Chemtrec: 1-800-424-9300 or 1-703-527-3887 (USA/CAN) / +1-703-741-5970 (international – can be called collect). Refer below for in-country Chemtrec emergency contacts.

Contact Local Bio-Rad Agents for general information:

Australia, Bio-Rad Laboratories Pty. Ltd., Level 5, 446 Victoria Road, Gladesville NSW 2111 • Phone 61-2-9914-2800 • Fax 61-2-9914-2888 •
 Poison Information Centre: 13 11 26 (24 hours a day, anywhere in Australia); +61 13 11 26 • **24h/365d:** 1800 039 008 • Chemtrec (**24h/365d**): +(61)-290372994

Austria, Bio-Rad Laboratories Ges.m.b.H., Hummelgasse 88/3-6, A-1130 Vienna • Phone 43-1-877-8901 • Fax 43-1-876-5629 •
 Poison Information Centre: +43 1 406 43 43 • Chemtrec (**24h/365d**): +(43)-13649237

Belgium, Bio-Rad S.A.-N.V. Winninglaan 3, BE-9140 Temse • Phone +32 (3)710-53-00 • Fax +32 (3)710-53-01 • Poison Information Centre / Belgisch Antigifcentrum:
 Brussels: +32 70 245 245; Luxembourg: 070 245 245 / 8002 5500 (every day, 24 to 24 hours) • Chemtrec (**24h/365d**): +(32)-28083237

Brazil, Bio-Rad Laboratórios Brasil Ltda, Rua Alfredo Albano da Costa, 100 / Distrito Industrial, Lagoa Santa - MG, CEP: 33400-000 • Phone +55 (31)3689-6600 •
 Fax +55 (31)3689-6611 • Contatos com a área de Suporte Técnico ao Cliente (CTS - Customer Technical Support): Telefones: 4003-0399 (Capital e Regiões Metropolitanas) e 0800-200-8900 (Outras Localidades) • Centro de Informações Toxicológicas: 0800 643 5252 •
 Telefone para emergências / Chemtrec (**24h/365d**): +(55)-2139581449

Canada, Bio-Rad Laboratories, Ltd., 2403 Guénette Street, Montréal, Québec H4R 2E9 • Phone 1-514-334-4372 • Fax 1-514-334-4415 •
 Poison Information Centre: Alberta: 1 800 332 1414; British Columbia: 1 800 567 8911; Manitoba: 1 855 776 4766; New Brunswick: 911;
 Newfoundland: 709 722 110; Northwest Territories: 1 800 332 1414; Nunavut: 867 979 7350 (Iqaluit), 867 983 2531 (Cambridge Bay),
 867 645 2816 (Rankin Inlet); Ontario: 1 800 268 9017; Prince Edward Island: 1 800 565 8161; Québec: 1 800 463 5060; Saskatchewan: 1 866 454 1212;
 Yukon: 867 393 8700 • Chemtrec (**24h/365d**): 1-800-424-9300 / 1-703-527-3887

China, Bio-Rad Laboratories Shanghai Ltd. 3rd Floor, #18 Dong Fang Road, Bldg E, Poly Plaza, Pudong, Shanghai, PRC 200120 • Phone 86-21-61698500 •
 Fax 86-21-61698599 • National Poison Control Center: +86 10 831 323 45 • Chemtrec (**24h/365d**): 4001-204937

Czech Republic, Bio-Rad spol. s r.o., Nad ostrovem 1119/7, 147 00 Prague 4 • Phone 420-241-430-532 • Fax 420-241-431-642 •
 Toxikologické informační středisko: +420 224 919 293, +420 224 915 402 • Chemtrec (**24h/365d**): +(420)-228880039

Denmark, Bio-Rad Laboratories, Symbion Science Park, Fruebjergvej 3, DK-2100 Copenhagen East • Phone +45-4452-1000 • Fax +45-4452-1001 •
 Poison Information Center / Giftlinjen Ring: +45 82 12 12 12 • Chemtrec (**24h/365d**): +(45)-69918573

Finland, Bio-Rad Laboratories, Linnanherankuja 16, FIN-00950 Helsinki • Phone 358-9-804-22-00 • Fax 358-9-7597-5010 • Poison Information Centre:
 Myrkytystietokeskus: +358 9 471977 Avoimna 24 t / vrk • Chemtrec (**24h/365d**): +(358)-942419014

France, Bio-Rad, 3 boulevard Raymond Poincaré, 92430 Marnes-la-Coquette • Phone 33-1-47-95-60-00 • Fax 33-1-47-41-91-33 • Numéro ORFILA + 33 (0)1 45 42 59 59
 (24 heures sur 24 - 7 jours sur 7) • Chemtrec (**24h/365d**): +(33)-975181407

Germany, Bio-Rad Laboratories GmbH, Heidemannstrasse 164, D-80939 Munich • Phone +49-(0)89-318-840 • Fax +49-(0)89-318-84100 •
 Giftinformationszentren: Berlin: 030/19240 (Notruf); Bonn: 0228/19240 (Notruf); Erfurt: 0361/730 730; Freiburg: 0761/19240 (Notruf); Göttingen: 0551/19 240
 (Notruf); Homburg: 06841/19240 (Notruf) 06841/1628436 (Sekretariat); Mainz: 06131/19240 (Notruf); 06131-23 24 66 (Infoline);
 München: 089/19240 (Notruf) • Chemtrec (**24h/365d**): 0800-181-7059 oder +(49)- 69643508409

Greece, Bio-Rad Laboratories M.E.P.E, 2-4 Mesogeion Street, Fourth Floor 115 27 Athens • Phone 30-210-7774396 • Fax 30-210-7774376 •
 Poison Information Centre: (0030) 2107793777 (24 h/365d) • Chemtrec (**24h/365d**): +(30)-2111768478

- Hong Kong**, Bio-Rad Pacific Ltd., Unit 1101, 11/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay • Phone 852-2789-3300 • Fax 852-2789-1290 • Poison Information Centre: +852 2772 2211 • Chemtrec (24h/365d): 800-968-793
- Hungary**, Bio-Rad Hungary Ltd., H-1082 Budapest, Futo Street 47-53, Hungary • Phone +36-1-459-6100 • Fax +36-1-459-6101 • Poison Information Centre: Információsztájtatás akut mérgezés esetén (+36 80) 201-199 (0-24 h, díjmentesen hívható) • Chemtrec (24h/365d): +(36)-18088425
- India**, Bio-Rad Laboratories (India) Pvt. Ltd., Bio-Rad House, 86-87, Udyog Vihar, Phase IV, Gurgaon, Haryana 122 015 • Phone 1-800-180-1224 • Fax 91-124-2398115 • National Poison Information Centre: Toll Free No. – 1 800 116 117 (24h/365d) • Chemtrec (24h/365d): 000-800-100-7141
- Israel**, Bio-Rad Laboratories Ltd., 14 Homa Street, New Industrial Area, Rishon Le Zion 75655 • Phone 972-3-9636050 • Fax 972-3-9514129 • Poison Information Center: 04-7771900 (24/7) or 4 854 1900 • Chemtrec (24h/365d): +(972)-37630639
- Italy**, Bio-Rad Laboratories S.r.l., Via Cellini 18/A, 20090 Segrate, Milan • Phone +39-02-216091 • Fax +39-02-21609553 • Poison Information Centre / Centro Antiveneni: Bergamo: +39 800 883 300; Firenze: +39 55 794 7819; Foggia: +39 881 732 326; Milan: +39 02 6610 1029; Pavia: +39 38 224 444; Rome: +39 06 305 43 43; Turin: +39 011 663 7637 • Chemtrec (24h/365d): 800-789-7670 o +(39)-0245557031
- Japan**, Bio-Rad Laboratories K.K., Tennoz Central Tower 20F, 2-2-24 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140 0002 • Phone 81-3-6361-7070 • Fax 81-3-5463-8481 • Poison Information Centre: Tsukuba-City: +81 72 727 2499 / +81 29 852 9999; Minoh City: +81 (0)72 727 2499 • Chemtrec (24h/365d): +(81)-345209637
- Korea**, Bio-Rad Korea Ltd., 10th Floor, Hyunjuk Building, 832-41, Gangnam-gu, Seoul 135-080 • Phone 82-2-3473-4460 • Fax 82-2-3472-7003 • Poison Control Information: Yongsan Army Base: 7917-5545/6001; Seoul Poison Center: 129 • Chemtrec (24h/365d): +(82) 070-7686-0086 또는 00-308-13-2549
- México**, Bio-Rad, S.A., Avenida Eugenia 197, Piso 10-A, Colonia Narvarte, Delegación Benito Juárez, C.P. 03020 División de Diagnóstico Clínico "CDG" • Tel: 54887690 ó 54887670 Ext. 1031 • Correo: cts_cdg_mexico@bio-rad.com • Línea gratuita desde el interior de la república: 01 800 712 0190 • Centro de Información Toxicológica: 1 800 009 2800 • Teléfono de emergencia: Chemtrec (24h/365d): 01-800-681-9531
- The Netherlands**, Bio-Rad Laboratories B.V., Postbus 222, 3900 AE Veenendaal • Phone +31-318-540666 • Fax +31-318-542216 • Poison Information Centre: NVIC (030 274 88 88), Only for the purpose of informing medical personnel in cases of acute intoxications. Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftiging • Chemtrec (24h/365d): +(31)-858880596
- New Zealand**, Bio-Rad New Zealand, 189 Bush Road Unit B, Albany, Auckland • Phone 64-9-415-2280 • Fax 64-9-415-2284 • National Poisons Centre: +0800 764 766 • 24h/365d: 800 2436 2255 • Chemtrec (24h/365d): +(64)-98010034
- Norway**, Bio-Rad Laboratories, Nydalsveien 33, 0484 Oslo • Phone +47-23-38-41-30 • Fax +46(0)8-5551-2780 / +47-23-38-41-39 • Giftinformasjonen er det nasjonale rådgivnings- og kompetanseorganet vedrørende akutte forgiftninger og forgiftningsfare: +47 22 591300 (24h/365d) • Chemtrec (24h/365d): +(47)-21930678
- Poland**, Bio-Rad Polska Sp. z o.o., ul. Przyokopowa 33, 01-208 Warsaw • Phone +48-22-3319999 • Fax +48-22-3319988 • 24h/365d: +48 (22) 331 99 85 • biograd@biograd.com.pl • Poisons Information Centre: Gdansk: +48 58 682 04 04; Krakow: +48 12 411 99 99; Łódź: +48 42 63 14 724; Sosnowiec: +48 32 266 11 45; Warszawa: +48 22 619 66 54; Wrocław: +48 71 343 30 08 • Chemtrec (24h/365d): +(48)-223988029
- Portugal**, Bio-Rad Laboratories, Lda., Edifício Prime, Ave. Quinta Grande, 53 – Fração 3B Alfragide 26114-521 Amadora • Phone 351-21-472-7700 • Fax 351-21-472-7777 • CIAV - Centro de Informação Antivenenos (Portuguese Poison Centre): 808 250 143 • Chemtrec (24h/365d): +(351)-308801773
- Russian Federation**, Bio-Rad Laboratorii, Russian Federation, Moscow, Varshavskoe sh., 9, Bldg., 1B • Phone: +7-495-721-1404 • Fax +7-495-721-1412 • Poison Information Centre: Ekaterinburg: +7 343 229 98 57; Moscow: +7 495 628 1687; Saint-Petersburg: +7 921 757 3228 • Chemtrec (24h/365d): 8-800-100-6346
- Singapore**, Bio-Rad Laboratories (Singapore) Pte. Ltd., 27 International Business Park, #01-02 iQuest @IBP, Singapore 609924 • Phone 65-6415-3170 • Fax 65-6415-3189 • 24/7/365: 65-6415-3188 • Poison Information Centre: 6423 9119 (24h/365d); +61 13 11 26 (Australian hotline) • Chemtrec (24h/365d): 800-101-2201 或 +(65)-31581349
- South Africa**, Bio-Rad Laboratories (Pty) Ltd., 34 Bolton Road, Parkwood, Johannesburg 2193 • Phone 27-11-442-85-08 • Fax 27-11-442-85-25 • Poison Information Centre: +27 824 910 160; Rondebosch: +27 (0) 861 555 777; Tygerberg: +27 (0) 861 555 777 • Chemtrec (24h/365d): 0-800-983-611
- Spain**, Bio-Rad Laboratories, S.A., C/ Caléndula, 95, Edificio M. Miniparc II, El Soto de la Moraleja, 28109 Madrid • Phone 34-91-590-5200 • Fax 34-91-590-5211 • Servicio de Información Toxicológica: +34 91 562 0420 • Chemtrec (24h/365d): +(34)-931768545
- Sweden**, Bio-Rad Laboratories A.B., Box 1097, Solna Strandväg 3, SE-171 54, Solna • Phone +46-8-555-127-00 • Fax +46-8-555-127-80 • Poison Information Centre / Giftinformationscentralen: När det är akut (urgent): 112 Begär giftinformation; I mindre akuta fall (less urgent): +46 (0) 10 456 6700 Direktnummer [Vi svarar på frågor om akuta förgiftningar - dygnet runt, året runt] • Chemtrec (24h/365d): +(46)-852503403
- Switzerland**, Bio-Rad Laboratories AG, Pra Rond 23, CH-1785 Cressier • Phone +41 (0)26-674-55-05/06 • Fax +41 (0)26-674-52-19 • Email: swiss@bio-rad.com • Toxicological Information Centre: 145 (24-h-Notfallnummer) • Chemtrec (24h/365d): +(41)- 435082011
- Taiwan**, Bio-Rad Laboratories Taiwan Ltd., 14F-B, No. 126 Nan-King East Road, Sec. 4, Taipei, Taiwan 10546 R.O.C. • Phone 886-2-2578-7189 • Fax 886-2-2578-6890 • Chemtrec (24h/365d): 00801-14-8954
- Thailand**, Bio-Rad Laboratories Ltd., 1st & 2nd Floor, Lumpini I Bldg., 239/2 Rajdamri Rd., Lumpini, Pathumwan, Bangkok 10330 • Phone 662-651-8311 • Fax 662-651-8312 • Poisons Control Center: 1367, Line ID poisrequest (national callers); +66 2 419 7007 • Chemtrec (24h/365d): 001-800-13-203-9987
- United Kingdom**, Bio-Rad Laboratories Ltd., 3rd & 4th Floor, The Junction, Station Road, Watford, Hertfordshire, WD17 1ET • Phone +44 01 923 47 1301 • Fax +44 (0) 208 328 2550 • Freephone: 00 800 00 BIORAD (00 800 00 24 67 23) • Emergency number: + 44 111 (NHS Emergency support) 9am-5pm Mon-Fri: • Email: techsupport.uk@bio-rad.com • Poisons Information Centre: NHS 111 / 844 892 0111 • Chemtrec (24h/365d): +(44)-870-8200418
- United States**: American Association of Poison Control Centers call (800) 222-1222 (24h/365d) • Chemtrec (24h/365d): 1-800-424-9300 / 1-703-527-3887

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