

SAFETY DATA SHEET (SDS)

IDENTIFICATION OF PRODUCT (MIXTURE) AND SUPPLIER (1):

Product Name: BioPlex® 2200 Syphilis IgM Control Set

Product Number: 663-1530

Intended Use: The BioPlex 2200 Syphilis IgM Control Set is intended for use as an assayed quality control to monitor

the overall performance of the BioPlex 2200 Instrument and BioPlex 2200 Syphilis IgM Reagent Pack in the clinical laboratory. The performance of the BioPlex 2200 Syphilis IgM Control Set has not been

established with any other Syphilis assays.

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 1-425-881-8300 (daytime PT)

SDS e-mail contact: ro-sds@bio-rad.com

Technical Bio-Rad provides a toll free line for technical assistance, available 24 hours a day, 7 days a week. In the

Information United States of America and Puerto Rico, call toll free 1-800-2-BIORAD (1-800-224-6723).

Contacts: Outside the U.S.A., please contact your regional Bio-Rad office for assistance.

Refer to section 16 for non-US local Bio-Rad agent contact information.

Authorized FRANCE: Bio-Rad Laboratories
Representative in the European 92430 Marnes-la-Coquette

Community: 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 / 1-703-527-3887. Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this

product. Refer to section 16 for non-US local Bio-Rad agent contact information.

HAZARDS IDENTIFICATION -- HAZARDOUS COMPONENTS (2):

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. Refer to Section 16 for the full text of any *Risk* (*R*) and *Safety* (*S*) statement provided below.

Component	Content
BioPlex 2200 Syphilis IgM	- The negative controls are provided in a human serum matrix made from defribrinated plasma. Normal human serum/plasma that is non-reactive for HBsAg and antibodies to HIV and HCV.
Negative Control Two (2) 1.5 mL vials	- Preserved with ≤ 0.3% ProClin 300 (≤ 0.009% active ingredient), EC Index No 613-167-00-5 with CAS# 55965-84-9 [GHS / 2008/1272/EC Classification: WARNING; GHS07; H317; P280; P302 + P352, P333 + P313; P501.] [EU Classification per 2001/59/EC and 1999/45/EC: Irritant: Xi; R 43; S 24-35-37.]
(1)	- Preserved with ≤ 0.1% sodium benzoate [C ₇ H ₅ O ₂ •Na], CAS# 532-32-1, EC No 208-534-8 [Not subject to GHS and EU 2008/1272/EC or 1999/45/EC Regulatory requirements.]
WARNING	



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

Component	Content
BioPlex 2200 Syphilis IgM	- The positive controls are provided in a human serum matrix made from defribrinated plasma with added known concentrations of Treponema pallidum 17-kDa IgM and 47-kDa IgM derived from human disease state plasma.
Positive Control Four (4) 1.5 mL	- Each human donor unit used to manufacture this product was tested by FDA accepted methods and found non-reactive for Hepatitis B Surface Antigen (HBsAg), antibody to hepatitis C (HCV) and antibody to HIV-1/HIV-2.
vials (!)	- Preserved with ≤ 0.3% ProClin 300 (≤ 0.009% active ingredient), EC Index No 613-167-00-5 with CAS# 55965-84-9 [GHS / 2008/1272/EC Classification: WARNING! GHS07; H317;P280; P302 + P352, P333 + P313; P501.] [EU Classification per 2001/59/EC and 1999/45/EC: Irritant: Xi; R 43; S 24-35-37.]
WARNING	- Preserved with ≤ 0.1% sodium benzoate [C ₇ H ₅ O ₂ •Na], CAS# 532-32-1, EC No 208-534-8 [Not subject to GHS and EU 2008/1272/EC or 1999/45/EC Regulatory requirements.]

Markings according to the *United Nations* (UN) Globally Harmonized System (GHS), *United States* Hazard Communication Standard (HCS) and *European Community* (EU) 2008/1272/EC guidelines:

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

 \leq 0.3% ProClin 300 [\leq 0.009% active ingredients – reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one (C_4H_4CINOS ;

CAS# 26172-55-4, EC No 247-500-7) and 2-methyl-2H -isothiazol-3-one (C_4H_5NOS ; CAS# 2682-20-4, EC No 220-239-6) (3:1)], EC Index No 613-167-00-5 with CAS# 55965-84-9.

 $\textit{GHS} \setminus \textit{2008/1272/EC Classification} \ [* \textit{demotes precautionary statements included on the product label}]:$

Label(s): GHS07

Signal Word: WARNING

<u>Label Hazard Statement</u>: **H317**: May cause an allergic skin reaction.

Supplemental Hazard Statement: None Specified

<u>Precautionary Statement – Prevention:</u> **P261**: Avoid breathing mist / vapours / spray

P272: Contaminated work clothing should not be allowed out of the workplace. **P280**: Wear protective gloves/protective clothing/eye protection/face protection. *

<u>Precautionary Statement – Response:</u> P302 + P352: IF ON SKIN: Wash with plenty of soap and water. *

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention. *

<u>Precautionary Statement – Storage</u>: None Specified

<u>Precautionary Statement – Disposal:</u> **P501:** Dispose of contents and container in accordance to local, regional, national and

international regulations. *

COMPOSITION/INFORMATION ON INGREDIENTS -- HAZARDOUS COMPONENTS (3):

The following information is furnished for those product hazardous constituents that require regulatory control or disclosure at the concentration found in the product. Note that the information here is often based on data from the chemical raw material (LD_{50} , exposure limits, etc.) and that product contains a significantly diluted concentration in an aqueous solution, thus this assessment has taken hazard reduction processing into consideration when possible. The GHS and EU classifications were made according to the latest editions and expanded upon from company and literature data. (Refer to the *Key* below)



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

Chemical Ingredient	Data / Information		
ProClin 300 [≤ 0.3% (≤ 0.009% active ingredient)]	Hazardous ingredient concentration in raw material - According to the supplier, Sigma-Aldrich, the concentrated preservative is a mixture with 3-3.6% Active Ingredients in 3:1 ratio: 5-chlor-2-methyl-4-isothiazolin-3-one (C_4H_4 ClNOS; CAS# 26172-55-4, EC# 247-500-7) and 2-methyl-4-isothiazolin-3-one (C_4H_5 NOS; CAS# 2682-20-4, EC# 220-239-6), Index No. 613-167-00-5 and CAS# 55965-84-9. Also contains 91-94% glycol and 3.5-5% Modified Alkyl Carboxylate (no CAS# or formula given for last two). RTECS#: NE		
WARNING!	EU Classification per 1999/45/EC and 2001/59/EC: Irritant: Xi, R 43; S 24-35-37 (≤ 0.06% and > 0.0015 % Active= Ingredient) ++ GHS / 2008/1272/EC Classification: WARNING; GHS07; H317; P280; P302 + P352, P333 + P313; P501 ++		
CONTINUED ON NEXT PAGE	The chemical, physical and toxicological properties have not been thoroughly investigated. At this concentration, this biocidal preservative is irritating to eyes and skin, and may be detrimental if enough is ingested (quantities above those found in the kit). ProClin 300 is a skin sensitizer; prolonged or repeated exposure may cause allergic reaction in certain sensitive individuals [H317]. Wear protective gloves/protective clothing/eye protection/face protection [P280]. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing mist/vapours/spray. IF ON SKIN: Wash with plenty of soap and water [P302 + P352]. If skin irritation or rash occurs: Get medical advice/ attention [P333 + P313]. The potential for adverse health effects is unknown for the highly diluted, small volume of ProClin in this kit, but is unlikely if handled appropriately with the requisite Good Laboratory Practices and Universal Precautions. This material and its container must be disposed of in a safe way and in accordance with local, regional, national and international regulations [P501].		
ProClin 300 [≤ 0.3% (≤ 0.009% active ingredient)]	EU Labeling Classification for 100% chemical concentration per Table 3.2 of 2008/1272/EC - from Annex I to Directive 67/548/EEC: Toxic: T, Environmental Danger: N R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R 34: Causes burns. R 43: May cause sensitisation by skin contact. R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
WARNING!	S (2-): Keep out of the reach of children. S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 28: After contact with skin, wash immediately with plenty of <i>soap and water</i> . S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S 45: In case of accident or if you feel unwell, seek medical advice immediately.		
CONTINUED	S 60: This material and its container must be disposed of as hazardous waste. S 61: Avoid release to the environment. Refer to special instructions/safety data sheets.		

Human Serum [reactive and=non-reactive] The human source material used to make the Positive Controls has been tested and certified non-reactive for HBsAg, and antibodies to HCV and HIV-1/HIV-2, but has not been verified to be free of Syphilis antigens. The Human sera in the components of this product were tested and found non-reactive for hepatitis B surface antigen (HBsAg) and antibodies to hepatitis C virus (HCV) and human immunodeficiency virus (HIV-1 and HIV-2) by FDA



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* 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 *Biosafety in Microbiological and Biomedical Laboratories* or WHO *Laboratory Biosafety Manual*. 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, *Standard* and *Universal Precautions*. Persons handling blood samples should have the option of receiving hepatitis B vaccination.



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

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+ The Kit Concentration was not tested; the values refer to the solution concentration as tested, designated by Percentage within parentheses.

++ The Kit Concentration was tested or the values given were estimated for the general diagnostic laboratory usage of the kit reagent dilution.

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

Abbreviations for component HMIS hazard ratings are as follows: H=Health, F=Flammability, R=Reactivity.

GHS = Globally Harmonized System

RTECS # - Registry of Toxic Effects of Chemical Substances number

PEL - Permissible Exposure Limit / Occupational Exposure Limit (OEL)

TLV/TWA - Threshold Limit Value / Time-Weighted Average

STEL - Short Term Exposure Limit

IDLH - Immediately Dangerous to Life or Health

Related product information:

- ♦ Refer to section 2 for the full text of any *GHS* /2008/1272/EC statement coded above.

 Refer to section 16 for the full text of any *Risk* (*R*) and *Safety* (*S*) statement for the above kit component concentration.
- ♦ 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.

EMERGENCY FIRST AID MEASURES (4):

Health Effects: Symptoms of overexposure may include headache, dizziness, congestion and breathing difficulty. May cause

allergic skin reaction upon repeated exposure, generally at concentrations and volumes that greatly exceed that

of this kit. Call a POISON CENTER or doctor/physician if you feel unwell.

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 According to the OSHA Bloodborne Pathogens Standard (29 CFR 1910.1030), Universal Precautions apply.

Physician Persons handling human blood source samples should be offered hepatitis B vaccination prior to working with

human source material.

FIREFIGHTING MEASURES (5):

Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.

Hazardous Decomposition Products: Oxides of carbon or nitrogen may form when heated to decomposition.



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

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.

ACCIDENTAL RELEASE MEASURES (6):

- 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.
- Follow established laboratory policy and applicable CDC/NIH biosafety and/or OSHA/WISHA hazardous material spill and/or NFPA/Fire Code 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 appropriate inert materials (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, national and international regulations.
- Refer to Sections 8 and 13 for more specifics.

HANDLING AND STORAGE INFORMATION (7):

Handling:

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. 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. Keep containers tightly closed; avoid splashing, spills and the generation of aerosols. Handle all human source specimens, materials and equipment used to perform the operations as though they were capable of transmitting infectious disease, as per *Standard* and *Universal Precautions*. All personal protective equipment should be removed before leaving the work area. Refer to Section 8 for more specifics. 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. Consult with your Environmental Health & Safety Office for assistance.

Storage:

Store the kit components as specified on the product label and/or in the product instructions provided with the test kit.

Caution, read accompanying material. Refer to the *Instructions For Use / Package Insert* for additional product information. Read and follow *BioPlex*[®] 2200 System Instrument Manual instructions.

This product is intended for use with the Bio-Rad BioPlex® 2200 System.

EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES (8):

Control Parameters – *Component chemicals 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.

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

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BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

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 Wear ANSI approved safety glasses, goggles or face shield with safety glasses or goggles. Contact lenses

Protection: should not be worn when handling lab hazards.

Protective Suitable gloves must be worn at all times when handling kit reagents or patient samples to provide skin Gloves:

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

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 Wear a lab coat, clinic jacket, gown, apron and/or smock. Disposable clothing is strongly recommended when

Clothing: 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 Do not breathe mist / vapours / spray.

Protection:

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.

Note: Occupational Exposure limit values and health hazard data were given in section 3. Environmental Controls

are included in following sections.

PHYSICAL AND CHEMICAL PROPERTIES (9):

Appearance:	Amber/yellow liquid.		
Odour:	Data is not available.	Odour threshold:	Not established.
pH:	The liquid chemical components are between pH 6 and 8.		
Boiling point:	Undetermined.		
Melting point:	Undetermined.		
Flash point:	Not Applicable. Flammable limits: LEL/LFL is Not applicable; UEL/UFL is Not applicable.		
Evaporation rate:	Data is not available.		
Fire hazard:	Although the components have not been tested for fire hazard and explosion data, they are not expected to be fire hazards, but some of the kit packaging materials may burn under fire conditions.		
Vapor pressure:	Data is not available.		
Vapor density:	Data is not available.		
Relative density:	Undetermined.		
Solubility:	Miscible in water.		
Partition coefficient (n-octanol/water):	Data is not available.		
Auto igniting:	Product is not known to be self-igniting.		
Decomposition temperature:	Data is not available.		
Viscosity:	Data is not available.		
Danger of explosion:	Product is not known to present an explosion hazard.		
No Other Standard Characteristics applicable to the identification or hazards of the product are known.			



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

STABILITY AND REACTIVITY INFORMATION (10):

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.
Conditions and/or Materials to Avoid:	None known when used as intended.
Hazardous Decomposition Products:	Oxides of carbon or nitrogen may form when heated to decomposition.
Hazardous Polymerization:	Has not been reported to occur.

TOXICOLOGICAL INFORMATION -- GENERAL COMPOSITE (11):

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

Acute Health Effects

Toxicity: May be detrimental if enough is ingested (typically in quantities above those found in the kit). Primary Irritant Effect: May slightly irritate respiratory system, eyes or skin, depending on amount and contact time.

Serious Eye Damage /

May slightly irritate eyes, depending on amount and contact time.

Irritation:

STOT-Single Exposure: Data is not available.
STOT-Repeated Exposure: Data is not available.
Aspiration Hazard: Data is not available.

Other Acute Health No significant other acute health effect known.

Effects:

Biohazard Potential:

The human source material used to make the Positive Controls has been tested and certified / found non-reactive for HBsAg, and antibodies to HCV and HIV-1/HIV-2, but has not been verified to be free of Syphilis antigens. This product may also contain other human agents capable of transmitting infectious disease. In accordance with good laboratory practice, all human source material should be considered potentially infectious and handled with the same precautions used with patient specimens. Each human donor unit used to manufacture this product was tested by FDA accepted methods and found non-reactive for Hepatitis B Surface Antigen (HBsAg), antibody to hepatitis C (HCV) and antibody to HIV-1/HIV-2. 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 or WHO Laboratory Biosafety Manual or equivalent. Persons handling blood samples should have the option of receiving hepatitis B vaccination.

Chronic Toxicity

Sensitization: May cause an allergic skin reaction. Contains a small volume of a very dilute, sensitizing

preservative (ProClin 300); though the potential for an allergic response is greatly reduced by

the dilution, sensitization threshold is unknown, thus handle accordingly.

Carcinogenicity: No carcinogenic effect known. No component, mixture or constituent has been classified as a

carcinogen by NTP, IARC or OSHA.

Germ Cell Mutagenicity: Data is not available.

Reproductive hazard: No reproductive toxic effect known.

Additional Toxicological Information: The chemical, physical and toxicological properties have not been thoroughly

investigated.



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

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This product was not tested. The following assessment is based on information for the ingredients.		
Toxicity:	No information found.	
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 affects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	

Avoid release to the environment.

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

DISPOSAL CONSIDERATIONS (13):

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 international, national, regional and local 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.

TRANSPORT INFORMATION (14):

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, IATA and UN "Model Regulations", the product must be transported as follows: No known transport restrictions.

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

REGULATORY INFORMATION (15): Composite HMIS Rating: Health: 2 Flammability: 0 Reactivity: 0 California Proposition 65: The Product does not contain listed substances. Carcinogenicity Categories: No component, mixture or constituent has been classified as a carcinogen by NTP (National Toxicity Program), IARC (International Agency for Research on Cancer), TLV-CAR (Threshold Limit Value established by ACGIH) or OSHA (Occupational Health and Safety Administration, U.S. Department of Labor).



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

National Regulations:

WHMIS Classification: This SDS contains the required information in accordance with the Workplace Hazardous Materials Information System (WHMIS) Canadian Standard for the hazard classification criteria for this product.

Mexican Standard: This SDS contains the required information for preparation in accordance with the Mexican Standard (NMX-R-019-SCFI-2011) SISTEMA ARMONIZADO DE CLASIFICACIÓN Y COMUNICACIÓN DE PELIGROS DE LOS PRODUCTOS QUÍMICOS GLOBALLY HARMONIZED SYSTEM (GHS).

Australian Inventory of Chemical Substances: All pertinent ingredients are listed.

Water hazard class: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Markings according to European Community 1999/45/EC, 2001/59/EC, 2001/60/EC, 2006/102/EC guidelines:

This product has been classified and labeled in accordance with applicable *European Community (EC) Directives* 1999/45/EC, 2001/59/EC, 2001/60/EC and 2006/102/EC.

Hazard Designation of Composite Product: IRRITANT: Xi



Hazard Determining substance(s) of labeling:

≤ **0.3% ProClin 300**, per 2001/59/EC Index No 613-167-00-5 with CAS# 55965-84-9 [Irritant: Xi; R 43; S 24-35-37 (≤ 0.06% and > 0.0015% Active Ingredient).]

OTHER INFORMATION (16):

Risk Phrases:

R 43 May cause sensitisation by skin contact.

Caution Contains human source material. Handle as if capable of transmitting potentially infectious agents (Universal

Precautions).

Safety Phrases:

S 24 Avoid contact with skin.

S 35 This material and its container must be disposed of in a safe way.

S 37 Wear suitable gloves.

S 56 Dispose of this material and its container to hazardous or special waste collection point.

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.

This product is intended for use with the Bio-Rad BioPlex® 2200 System.

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

Raw Material Vendor Safety Data Sheets

United Nations (UN) Globally Harmonized System (GHS)

European Community (EC) 2008/1272/EC, 2010/453/EC, 2006/1907/EC Regulations

EU Directives 1999/45/EC, 2001/59/EC, 2001/60/EC, 2006/102/EC

Registry of Toxic Effects of Chemical Substances (RTECS)

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

Mexican Standard (NMX-R-019-SCFI-2011)



BioPlex® 2200 Syphilis IgM Control Set

[Catalog 663-1530]

Australian Inventory of Chemical Substances (ACIS) [7-27-2012]

(http://www.nicnas.gov.au/Industry/AICS/ViewChemical.asp?SingleHit=1&Chemical_Id=15270&docVer=) California Proposition 65

Chemical safety assessment: Mixtures covered in this SDS were classified using the EU Regulation 1272/2008/EC and/or UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Fourth edition unless otherwise specified.

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

ACGIH - American Conference of Governmental Industrial Hygienists

ACIS - Australian Inventory of Chemical Substances

ANSI - American National Standards Institute

CAS - Chemical Abstracts Service

CDC - Centers for Disease Control, USA

CNS - Central Nervous System

DOT – Department of Transportation

EC₅₀ – half maximal effective concentration

EU – European Union

GHS - Globally Harmonized System

IATA – International Air Transport Association

IARC - International Agency for Research on Cancer

ICAO - International Civil Aviation Organization

IDLH - Immediately Dangerous to Life or Health

IMDG - International Maritime Dangerous Goods

IPCS - International Programme on Chemical Safety

LC₅₀ – median lethal concentration, 50%

LD₅₀ - median lethal dose, 50%

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicity Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm – parts per millón

RTECS # - Registry of Toxic Effects of Chemical Substances number

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TLV/TWA - Threshold Limit Value / Time-Weighted Average

UN - United Nations

US EPA – United States Environmental Protection Agency

US OSHA - Occupational Safety and Health Administration, U.S. Department of Labor

WHO – World Health Organization (United Nations)

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

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