

SAFETY DATA SHEET (SDS)

IDENTIFICATION OF PRODUCT (MIXTURE) AND SUPPLIER (1): Pathfinder[®] Herpes Simplex Virus Control Slides Product Name: 30493 (1 slide) **Product Number: Intended Use:** These are separately purchased kit components, identical to those found in the kits, which are to be used exclusively with the Bio-Rad Laboratories **Pathfinder[®] Herpes Simplex Virus Types 1 and 2** kit (Catalog# 25215) Refer to the Instructions For Use, Package Insert for additional product information. 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 Information** Bio-Rad provides a toll free line for technical assistance, available 24 hours a day, 7 days a week. In the **Contacts:** United States of America and Puerto Rico, call toll free 1-800-2-BIORAD (1-800-224-6723). 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 3 boulevard Raymond Poincaré 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] This SDS is listed with CHEMTREC 1-800-424-9300 / 1-703-527-3887. Use only in the event of a **Emergency Phone** CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this Number: product. Refer to section 16 for non-US local Bio-Rad agent contact information.

HAZARDS IDENTIFICATION -- HAZARDOUS COMPONENTS (2):

This product 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
Pathfinder [®] HSV Control Slides, 1 slide (Additional Required Items, available from Bio-Rad)	 Each slide has 1 well each of HSV-1 (American Tissue Culture Collection (ATCC) strain F(1)) and HSV-2 (ATCC strain MS) infected Vero cells and 2 wells of uninfected Vero cells. The fixation process used in the production of these slides has been shown to inactivate HSV. CAUTION: Handle the slides by the edges. Do not apply pressure to the surface of the foil bag.

Markings according to the United Nations (UN) Globally Harmonized System (GHS), United States Hazard Communication Standard (HCS) and European Community (EC) 2008/1272/EC guidelines: This product is not subject to labeling classification or identification according to GHS guidelines, United States Hazard Communication Standard (HCS) and EU 2008/1272/EC Regulations or other sources of literature known to us.



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 ($_{LD50}$, exposure limits, etc.) and that the product contains a significantly diluted concentration in an aqueous solution; thus, the assessment below has taken hazard reduction processing into consideration when possible. The GHS and EU classifications were was made according to the latest editions and expanded upon from company and literature data.

Chemical Ingredient: This product contains no chemical constituents that require regulatory control or disclosure at the concentration found in the product.

Biological Ingredient	Data / Information	
HSV Infected and Uninfected [Primate] Cell Line [Slide component]	HSV-1 (American Tissue Culture Collection [ATCC] strain F[1]) and HSV-2 [ATCC strain MS] infected and uninfected Vero cells (primate origin) have been solvent fixed and are not considered infectious or carcinogenic. 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 or WHO Laboratory Biosafety Manual</i> . Employ decontamination procedures with appropriate decon agent or disinfectant 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> .	
Animal proteins	This material is of animal origin (murine and bovine) 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 regulations.	
Slides replacement, optional and/or separately purchased kit component	hazard especially if broken or chipped so handle carefully. Wear suitable gloves and/or other appropriate person	
Note:	This replacement, optional and/or separately purchased component should be used only as intended with the Pathfinder[®] Herpes Simplex Virus Types 1 and 2 DFA Kit (Catalog# 25215), which must be handled by qualified personnel trained in laboratory procedures; lab workers should be aptly familiarized with their potential hazards as used in the assay. Refer to the Bio-Rad Laboratories Pathfinder[®] Herpes Simplex Virus Types 1 and 2 DFA Kit SDS (#SDSen25215) and kit instructions for safe handling of this kit replacement, optional and/or separately purchased material in the assay process.	

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.
- 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:	Because these slides are made of glass, they could potentially pose a slight physical cutting hazard, especially if broken or chipped.
Eye Contact:	Flush eyes with copious water for at least 15 minutes. OBTAIN MEDICAL ATTENTION.
Skin Contact:	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:	No significant health effect is known.



If Swallowed: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.

FIREFIGHTING MEASURES (5):

Extinguishing Media: Hazardous Combustion Products: Special Firefighting Procedures: Use extinguishing media appropriate for the surrounding fire. Oxides of carbon or nitrogen may form when heated to decomposition. Conventional firefighting full protective equipment (with NIOSH-approved

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): Rinse skin with water. 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. Clean the spill area with water and wipe dry. 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.
- Broken slides contaminated with blood or other human source or potentially infectious material must be handled as *Sharps* per 29 CFR 1910.1030, OSHA Bloodborne Pathogen and other regulations; however, dispose of this material in accordance with 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 <i>Standard</i> and <i>Universal Precautions</i> . All personal protective equipment. 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, co	onsult accompanying documents. Read and follow all the precautions and warnings in the kit product instructions.			
	separately purchased components, identical to those found in the kits, which are to be used exclusively with the Bio-Rad es kits listed in Section 1.			



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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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, and to prevent hazard 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 or 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 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:	Not required.
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 the following sections.

PHYSICAL AND CHEMICAL PROPERTIES (9):				
Appearance:	Solid Glass Slides.			
Odour:	Data is not available.Odour threshold:Not established.			
pH:	Not applicable.			
Boiling point:	Not established.	Melting point:	Not established.	
Flash point:	Not applicable. Flammable limits: LEL/LFL is <u>Not applicable</u> ; UEL/UFL is <u>Not applicable</u> .			
Evaporation rate:	Data is not available.			
Flammability (solid, gas):	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:	Not applicable.			
Solubility:	Not miscible.			
Partition coefficient (n-octanol/water):	Data is not available.			



Auto igniting:	Product is not known to be self-igniting.	
Decomposition	Data is not available.	
temperature:		
Viscosity:	Data is not available.	
Danger of explosion:	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.		

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: Stable under ordinary conditions of use and storage.	
Conditions and 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:	No significant toxic effect known.
Primary Irritant Effect:	No significant irritant effect known.
Serious Eye Damage / Irritation:	No significant irritant effect known.
STOT-Single Exposure:	Data is not available.
STOT-Repeated Exposure:	Data is not available.
Aspiration Hazard:	Data is not available.
Other Acute Health Effects:	Because these slides are made of glass, they could potentially pose a slight physical cutting hazard, especially if broken or chipped, so handle carefully, wear suitable gloves and/or other appropriate personal protective equipment and follow Good Laboratory Practices. Do not handle broken slides with unprotected hands.

Biohazard Potential:

HSV-1 (American Tissue Culture Collection (ATCC) strain F(1)) and **HSV-2** (ATCC strain MS) infected and uninfected **Vero** cells (primate origin) have been solvent fixed and are not considered infectious or carcinogenic. 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

Sensitization:	No sensitization effect known.
Carcinogenicity:	No carcinogenic effect known. No component, mixture or constituent has been classified as a carcinogen by NTP, IARC or OSHA OSHA (Occupational Health and Safety Administration, U.S. Department of Labor).
Germ Cell Mutagenicity:	Data is not available.
Reproductive hazard:	No reproductive toxic effect known.



ECOLOGICAL INFORMATION (12):

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.

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:

- Broken slides contaminated with blood or other human source or potentially infectious material must be handled as *Sharps* per 29 CFR 1910.1030, OSHA Bloodborne Pathogen and other regulations; however, dispose of this material in accordance with local, regional, national and international regulations.
- 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: 0	Flammability: 0	Reactivity: 0
California Proposition 65: The product does not contain listed substances.			
, e ,,	RC (International Agen		sified as a carcinogen by NTP (National CAR (Threshold Limit Value established partment of Labor).



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 Code: This SDS contains the required information for preparation according to the Australian Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals under Section 274 of the Work Health and Safety Act. Australian Inventory of Chemical Substances: All pertinent ingredients are listed.

Markings according to *European Community* 1999/45/EC, 2001/59/EC, 2001/60/EC, 2006/102/EC guidelines: This product is not subject to EU labeling classification or identification according to EU Directives 1999/45/EC, 2001/59/EC, 2001/60/EC, 2006/102/EC and other sources of literature known to us.

OTHER INFORMATION (16):
Risk Phrases: None Safety Phrases: None
This product 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.
These are separately purchased kit components, identical to those found in the kits, which are to be used exclusively with the Bio- Rad Laboratories kits listed in Section 1.
 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 (HCS)1910.1200 Canadian Workplace Hazardous Materials Information System (WHMIS) European Community (EC) Regulations 2008/1272/EC, 2010/453/EC, 2006/1907/EC Mexican Standard NMX-R-019-SCFI-2011 Australian Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Section 274 of the Work Health and Safety Act) 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) Threshold Limit Value established by American Conference of Governmental Industrial Hygienists (ACGIH) National Toxicity Program (NTP) Occupational Safety and Health (NIOSH) World Health Organization. Laboratory Biosafety Manual CDC/NIH Biosafety in Microbiological and Biomedical Laboratories Australian Inventory of Chemical Substances (ACIS) [7-27-2012] 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 HCS - Hazard Communication Standard, USA 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 WHMIS -Workplace Hazardous Materials Information System (Canadian) WHO - World Health Organization (United Nations)

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

This revision: Updated, reformatted and added new GHS information.

Bio-Rad Laboratories:

Department issuing SDS: Environmental Health and Safety

Contact for general SDS information: Redmond 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, <u>www.bio-rad.com/diagnostics</u>

Contact Local Bio-Rad Agents for general information:

Korea, Bio-Rad Korea Ltd., 10th Floor, Hyunjuk Building, 832-41, Gangnam-gu, Seoul 135-080 • Phone 82-2-3473-4460 • Telefax 82-2-3472-7003



Mexico, Bio-Rad, S.A., Avenida Eugenia 197, Piso 10-A, Col. Narvarte, Delegacion Benito Juarez, C.P. 03020 Mexico, D.F. • Phone +52 (55) 5488-7670 • Telefax +52 (55) 1107-7246
The Netherlands, Bio-Rad Laboratories B.V., Fokkerstraat 2-8, 3905 KV Veenendaal • Phone +31-318-540666 • Telefax +31-318542216
New Zealand, Bio-Rad New Zealand, 189 Bush Road Unit B, Albany, Auckland • Phone 6494152280 • Telefax 6494152284
Norway, Bio-Rad Laboratories, Johan Scharffenbergs vei 91, N-0694 Oslo • Phone 4723384130 • Telefax 4723384139
Poland, Bio-Rad Polska Sp. z o.o., Nakielska Str. 3, 01-106 Warsaw • Phone 48-22-3319999 • Telefax 48-22-3319988
Portugal, Bio-Rad Laboratories, Lda., Edificio Prime, Av. Quinta Grande, 53 – Fracção 3B Alfragide 26114-521 Amadora • Phone 351-21-472-7700 • Telefax 351-21-472-7777
Russia, Bio-Rad Laboratorii, Business Centre "West Bridge", Leningradsky pr-t H.37A Bld. 14, 125167 Moscow • Phone 7-495-72114 04 • Telefax 7-495-721-14-12
Singapore, Bio-Rad Laboratories (Singapore) Pte. Ltd., 27 International Business Park, #01-02 iQuest @IBP, Singapore 609924 • Phone 65-6415-3170 • Telefax 656415-3189
South Africa, Bio-Rad Laboratories (Pty) Ltd., 34 Bolton Road, Parkwood, Johannesburg 2193 • Phone 27-11-442-85-08 • Telefax 27-11-442-85-25
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 • Telefax 34-91-590-5211
Sweden, Bio-Rad Laboratories A.B., Vintergatan 1, Box 1097, S-172 22 Sundbyberg • Phone 46-8-555-127-00 • Telefax 46-8-555-127-80
Switzerland, Bio-Rad Laboratories AG, Nenzlingerweg 2, CH-4153 Reinach BL• Phone 41-61-717-95-55 • Telefax 41-61-717-95-50
Thailand, Bio-Rad Laboratories Ltd., 1st & 2nd Floor, Lumpini I Bldg., 239/2 Rajdamri Rd., Lumpini, Pathumwan, Bangkok 10330 • Phone 662-651-8311 • Telefax 662-651-8312
United Kingdom, Bio-Rad Laboratories Ltd., Bio-Rad House, Maxted Road, Hemel Hempstead, Herts HP2 7DX • Phone +44-(0)20-8328-2000 • Telefax +44-(0)20-8328-2550

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