



**BioGX**

Molecular Made Easy

# Group A Streptococcus OSR for BD MAX™

**REF** 400-033-C-MAX

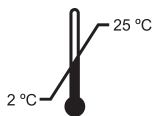


24 Reactions

## Instructions For Use

For *In Vitro* Diagnostic Use

For use with BD MAX™ System



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### **PROPRIETARY NAME**

BioGX Group A Streptococcus – OSR for BD MAX™

### **INTENDED USE**

The BioGX Group A Streptococcus – OSR for BD MAX™ is an automated *in vitro* diagnostic test reagent. The open system reagent (OSR) is used for the multiplex qualitative detection of DNA from *Streptococcus pyogenes* (*speB* gene<sup>1</sup>), and a DNA sample processing control (SPC) from the following specimens:

- Oropharyngeal swab sample in Copan ESwab™
- Oropharyngeal swab sample in Copan UTM®

The assay can only be performed on the BD MAX™ automated nucleic acid extraction and real-time PCR instrument using the BD MAX™ ExK™ DNA-3 extraction strip and the accompanying BioGX UDP file.

The BD MAX™ extraction reagent contains a Sample Processing Control (SPC) RNA, the presence of which is also detected by the BioGX multiplex assay. This SPC serves as a control for the extraction of nucleic acids from the sample and as an internal amplification control. No external addition of SPC by the user is required.

The multiplex PCR assay is provided in a BioGX proprietary Sample-Ready™ lyophilized format sealed in a BD MAX™ tube. Each tube contains all PCR components such as primers, probes, enzymes, dNTPs, MgCl<sub>2</sub>, and buffers required for real-time PCR-based testing of one sample.

### **SUMMARY AND EXPLANATION**

*Streptococcus pyogenes*, also known as group A *Streptococcus* (abbreviated GAS), is a strict human pathogen with prevalence worldwide causing greater than 750 million infections per year. *S. pyogenes* can cause a variety of different infections that exhibit different symptoms, but the vast majority are infections of the throat. Infections of the throat caused by *S. pyogenes*, also known as acute pharyngitis or strep throat, can occur in people of all ages, but is most common among children 5-15 years old. *S. pyogenes* infections are responsible for approximately 20-30% of sore throats in children and 5-15% of sore throats in adults<sup>1-3</sup>.

The BioGX Group A Streptococcus – OSR for BD MAX™ is a real-time multiplex qualitative *in vitro* test reagent intended to be used by laboratory personnel trained in the use of the BD MAX™ automated real-time PCR system. The test is intended to aid in the

diagnosis of Group A *Streptococcus* infection by detecting the presence of *Streptococcus pyogenes* target DNA extracted from oropharyngeal swab samples in Copan ESwab™ or Copan UTM® collected from individuals at risk of infection.

### **PRINCIPLES OF THE PROCEDURE**

The BioGX Group A Streptococcus – OSR for BD MAX™ is to be used with the BD MAX™ Open System for automated patient sample processing and molecular analysis. The BD MAX™ System uses a combination of lytic and extraction reagents to perform cell lysis and nucleic acid extraction. Following enzymatic cell lysis at elevated temperature, the released nucleic acids are captured by magnetic affinity beads. To control for extraction efficiency, a DNA Sample Processing Control is included in each BD MAX™ DNA Extraction Tube. The beads with bound nucleic acids are washed and the nucleic acids are eluted by heat in an elution buffer. The eluted nucleic acid is then mixed with the BioGX.

The amplified DNA targets are detected using hydrolysis probes labeled at one end with a fluorescent reporter dye (fluorophore) and at the other end with a quencher moiety. Probes labeled with different fluorophores are used to detect specific amplicons originating from *Streptococcus pyogenes* and a Sample Processing Control in two (2) different optical channels of the BD MAX™ System:

- |   |                               |                 |
|---|-------------------------------|-----------------|
| • | unused                        | 475/520 channel |
| • | <i>Streptococcus pyogenes</i> | 530/565 channel |
| • | unused                        | 585/630 channel |
| • | unused                        | 630/665 channel |
| • | Sample Processing Control     | 680/715 channel |

When the probes are in their native state, the fluorescence of the fluorophore is quenched due to its proximity to the quencher. However, in the presence of their specific target cDNA, the probes hybridize to their complementary sequences and are hydrolyzed by the 5'-3' exonuclease activity of the DNA polymerase as it synthesizes the nascent strand along the DNA template. As a result, the fluorophores are separated from their quencher molecules and fluorescence is emitted. The amount of fluorescence detected in the two (2) optical channels used for the BioGX Group A Streptococcus – OSR for BD MAX™ is directly proportional to the quantity of the corresponding probe that is hydrolyzed, and therefore proportional to the amount of synthesized target. The BD MAX™ System measures these signals at the end of each amplification cycle in real time, and interprets the data to provide a qualitative result for each of the above targets.

## REAGENTS

Qty	REF	Contents	Tests
1	400-033-MAX	<b>BioGX Group A Streptococcus - OSR for BD MAX™</b> Sample-Ready™ lyophilized PCR Master Mix containing polymerase, nucleotides, specific molecular primers and probes, Sample Processing Control-specific molecular primers and probes.	24 tests per pouch
1	800-028-C	<b>BioGX Rehydration Buffer Tube (C) Open System Reagents for BD MAX™</b> Reagent tube containing BioGX Rehydration Buffer for use in Lyophilized PCR Master Mix rehydration.	24 tests per pouch

**NOTE:** Safety Data Sheets (SDS) are available at [www.biogx.com](http://www.biogx.com) or by request.

## EQUIPMENT AND MATERIALS REQUIRED BUT NOT PROVIDED

- BD MAX™ automated nucleic acid extraction and real-time PCR instrument
- BD MAX™ ExK™ DNA-3 (BD catalog no. 442822).  
Extraction Kits include Sample Buffer Tubes (SBT), Septum Caps, Extraction Tubes, and Unitized Reagent Strips sufficient for 24 tests.
- BD MAX™ PCR Cartridges (BD catalog no. 437519).
- Copan ESwab™ or Copan UTM® collection device.
- Vortex Genie 2 Vortexer (VWR catalog no. 58815-234) or equivalent.
- Disposable nitrile gloves.
- BioGX Lyophilized Positive Control Template DNA Beads (10<sup>5</sup> copies/bead).
  - Streptococcus pyogenes BioGX part number 720-0051

## WARNINGS AND PRECAUTIONS



- BioGX Group A Streptococcus – OSR for BD MAX™ can only be performed on the BD MAX™ automated nucleic acid extraction and real-time PCR instrument using the BD MAX™ ExK™ DNA-3 extraction strip and the accompanying BioGX UDP file.
- Treat all biological specimens, including used Extraction Kits and PCR Cartridges, as if capable of transmitting infectious agents in accordance with safe laboratory procedures such as those described in CLSI Document M29<sup>4</sup> and in Biosafety in Microbiological and Biomedical Laboratories<sup>5</sup>.

- Performance characteristics of this test have been established only with the specimen types listed in “Intended Use” section. The performance of this assay with other specimen types or samples has not been evaluated.
- Do not use the reagents if the protective pouches are open or torn upon arrival.
- Close reagent protective pouches promptly with the zip seal after each use. Remove any excess air in the pouches prior to sealing and store at 2-8 °C.
- Do not remove desiccant from the PCR Master Mix pouches.
- Do not use Master Mix if the desiccant is not present or is broken inside the Master Mix pouches.
- Do not use reagent tubes if the foil seal has been opened or damaged.
- Do not mix reagents from different pouches and/or kits and/or lots.
- Do not use expired reagents and/or materials.



- Each Master Mix and BioGX Rehydration Buffer tube is used to process a single sample. Do not reuse Master Mix or BioGX Rehydration Buffer tubes.
- Refer to BD MAX™ ExK™ DNA-3 Extraction Kit Instructions for information about proper handling, cautions, and proper waste disposal.
- Do not mix septum caps between Sample Buffer Tubes or re-use septum caps as contamination may occur and compromise test results.
- Check BD Unitized Reagent Strips for proper liquid fills (ensure that the liquids are at the bottom of the tubes).
- Do not pipette by mouth.
- Do not smoke, drink, or eat in areas where specimens or kits are being handled.
- Dispose of unused reagents and waste in accordance with country, federal, provincial, state, and local regulations.
- Use clean gloves when handling extraction kit components and PCR reagents and buffer tubes.

### STORAGE AND STABILITY



- BioGX recommends long-term storage of unopened pouches at 2-25°C. Refer to the product pouch label for shelf life duration.
- Reagents are stable at a temperature range of 2-30°C during shipment for 5 days.
- Reagents have been tested to demonstrate optimal performance when stored properly and consumed by the Expiration Date. Long-term stability studies are ongoing and the Expiration Date will be amended as additional data is available.



- Avoid exposing the reagents (lyophilized or rehydrated) to direct sunlight or long-term ambient lighting.
- Tightly reseal the pouch with unused reactions and immediately return to a refrigerator after opening.



- Avoid exposure to moisture and use the entire contents of the opened pouch within 2 months when stored at 2-8°C.

### INSTRUCTIONS FOR USE

#### **Install the BioGX Electronic User Defined Protocol on the BD MAX™**

It will be necessary to import an Electronic User Defined Protocol (eUDP) onto the BD MAX™. The most current eUDP is available for download at [www.biogx.com](http://www.biogx.com) by using the drop down menu at the top right of the home page. Select "Education Center" then select "Int. Product Documents". Choose the appropriate product number under "Instructions for Use Manual & Product Inserts" and download the eUDP. Please refer to the BD MAX™ user manual<sup>6</sup> for uploading instructions.

#### **Specimen Collection/Transport**

Oropharyngeal swab samples in Copan ESwab™ and Copan UTM® should be collected, transported, and stored according to institutional and laboratory standard operating procedures.

## Specimen Preparation

### Oropharyngeal Swab in Copan ESwab™

Thoroughly vortex the sample prior to addition to the SBT. Pipette 50 µL of specimen into the Sample Buffer Tube (SBT), aseptically place the BD™ septum cap on each SBT. Pulse vortex the SBT for 1-3 seconds and load the SBT into the extraction tray.

### Oropharyngeal Swab in Copan UTM® (3 mL collection volume)

Thoroughly vortex the sample prior to addition to the SBT. Pipette 100 µL of specimen into the Sample Buffer Tube (SBT), aseptically place the BD™ septum cap on each SBT. Pulse vortex the SBT for 1-3 seconds and load the SBT into the extraction tray.

### Oropharyngeal Swab in Copan UTM® (1 mL collection volume)

Thoroughly vortex the sample prior to addition to the SBT. Pipette 50 µL of specimen into the Sample Buffer Tube (SBT), aseptically place the BD™ septum cap on each SBT. Pulse vortex the SBT for 1-3 seconds and load the SBT into the extraction tray.

### Other Sample Types



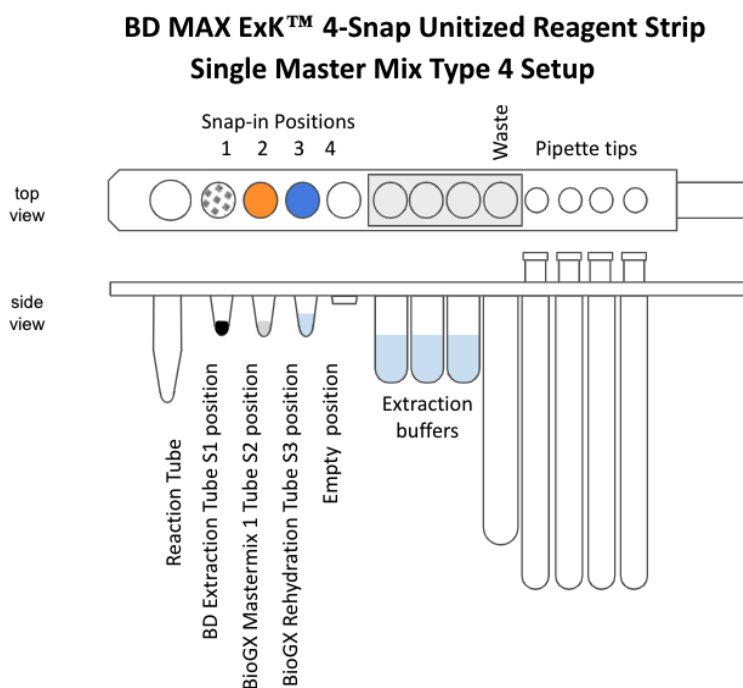
This assay has been optimized for use with the sample types and volumes described above. Use of any other specimen type, collection method, or sample volumes may be inhibitory to the PCR or disrupt extraction without appropriate Guardrail and processing volume adjustments. BioGX does not make claims for processing methods or sample types other than those described in this product insert.

### Setting up the Unitized Reagent Strip on the BD MAX™



1. Wear nitrile gloves when handling Sample-Ready™ lyophilized reagents to reduce the generation of static charges. DO NOT use latex gloves.
2. Use only BD MAX™ ExK™ DNA-3 extraction kits with the BioGX Group A Streptococcus – OSR for BD MAX™. DO NOT use BD MAX™ Master Mix or the blank 0.3 mL conical tubes from the BD MAX™ ExK™ DNA-3 extraction kit.
3. Load one extraction cartridge into the extraction tray per specimen to be tested.
4. Snap one BD MAX™ ExK™ DNA-3 Extraction Tube into position 1 (Snap-1) of each Unitized Reagent Strip (Figure 1).

5. Snap one BioGX Sample-Ready™ lyophilized PCR Master Mix reagent tube into position 2 (Snap-2) of each Unitized Reagent Strip. Check to make sure the Sample-Ready™ lyophilized cake is at the bottom of the tube prior to inserting into the Unitized Reagent Strip. The funnel-shaped cake may be in any orientation (v, >, ^, <) in the **bottom** of the tube.
6. Snap one BioGX Rehydration Buffer tube into position 3 (Snap-3) of each Unitized Reagent Strip. Check to make sure the buffer is at the bottom of the tube prior to inserting into the Unitized Reagent Strip.
7. Lift the tray and briefly examine the bottom of each Unitized Reagent Strip to ensure all reagents are at the bottom of each tube.
8. Proceed with worklist generation and sample loading per BD MAX™ operating instructions. Select the appropriate User Defined Protocol (eUDP) provided by BioGX.
9. Load the extraction tray and, if necessary, a new PCR card into the instrument, close the door, and click “Start Run”. Snap position 4 (Snap-4) will remain empty.



**Figure 1 – Diagram of BD MAX™ ExK™ 4-snap Unitized Reagent Strips**

**NOTE:** Always first insert all Snap-1 tubes, then all Snap-2 tubes, then all Snap-3 tubes into the Unitized Reagent Strip.



### **QUALITY CONTROL**

#### **CONTROL**

Calibration of BioGX Group A Streptococcus – OSR for BD MAX™ is not required. Each BioGX Group A Streptococcus - OSR for BD MAX™ includes molecular primers and probes specific for the detection of the DNA sample processing control (SPC) present in the BD MAX™ ExK™ DNA-3 Extraction Kit. No external addition of SPC is required. The SPC serves as both a sample extraction control and a PCR internal amplification control (IAC).

Laboratories must establish the number, type, and frequency of testing of control materials according to guidelines or requirements of local, provincial, state, and federal and/or country regulations or accreditation organizations in order to monitor the effectiveness of the entire analytical process. For general Quality Control guidance, the user may wish to refer to CLSI, MM3, and EP12<sup>5,7</sup>. External Controls available from BioGX are treated as if they were patient samples (Refer to Table 1 in the “Results Interpretation” section for the interpretation of External Control assay results).

It is recommended that one (1) External Positive Control and one (1) External Negative Control be run at least daily until adequate process validation is achieved on the BD MAX™ System in each laboratory setting. Reduced frequency of control testing should be in accordance with applicable regulations.

The External Negative Control is intended to detect reagent or environmental contamination (or carry-over) by target nucleic acids. Various types of External Controls are recommended including a previously characterized sample known to be negative or a No Template Control (NTC) to allow the user to select the most appropriate for their laboratory quality control program. BioGX recommends the NTC consist of molecular grade water to be added to the SBT. The same quantity of molecular grade water as sample volume that is being processed should be used. BioGX also recommends the External negative control be prepared prior to the External Positive Control in order to reduce the potential for cross-contamination during control preparation.

The External Positive Control is intended to monitor for substantial reagent failure. Commercially available control material from BioGX or other authorized sources may be used. For the BioGX External Control suspensions, it is recommended the DNA suspensions be prepared according to their respective IFU and then added to the Sample Buffer Tube (SBT). Please refer to BioGX Instructions for Use available for download at [www.biogx.com](http://www.biogx.com) by clicking on "Int. Product Documents" under "Education Center" and selecting the appropriate product under "Template Controls".

All External Controls should yield the expected results outlined in Table 1. Briefly, positive results for External Positive Control, and negative for External Negative Controls. An External Negative Control yielding a positive result is indicative of environmental and/or sample cross-contamination. An External Positive Control that yields a negative result is indicative of a specimen handling or reagent preparation problem.

An External Control that yields an Unresolved, Indeterminate, or Incomplete test result is indicative of a reagent or a BD MAX™ System failure. Check the BD MAX™ System monitor for any error messages. Refer to the "System Error Summary" section of the BD MAX™ System User's Manual<sup>6</sup> for interpretation of warning and error codes. If the problem persists, use reagents from an unopened pouch or use a new assay kit.

### **RESULTS INTERPRETATION**

Results are available on the *Results* tab in the *Results* window on the BD MAX™ System monitor. The BD MAX™ System software automatically interprets the test result when the BioGX eUDP is used. Possible results for each target for patient samples are shown in Table 2.

#### **External Negative and Positive Controls**

If the positive or negative control does not exhibit the expected performance as described in Table 1, the assay may have been set up/or executed improperly, or reagent or equipment malfunction could have occurred. In this case, invalidate the run and re-test all samples in that run.

The Sample Processing Control serves as sample extraction control and an internal amplification control. In the event that target results are negative, an SPC result must be positive for the viral target result to be identified as a valid negative result.

For further reference, please reference the product insert for Lyophilized Control Template Beads (BioGX Product Number Series 720-XXXX) which is available for download at [www.biogx.com](http://www.biogx.com) by using the drop down menu at the top right of the home page. Select "Education Center" then select "Int. Product Documents". Choose the appropriate product number under "Template Controls".

**Table 1. Interpretation of BioGX external controls.**

Control Type	Applicability for Monitoring	Expected Results	
		GAS	SPC
Negative Control -Addition of molecular grade water*	Reagent and/or environmental contamination	NEG	POS
Negative Control -Known Negative Sample		NEG	POS
GAS Positive Control	Substantial reagent failure including primer and probe integrity	POS	POS

\*BioGX recommends the NTC consist of molecular grade water to be added to the SBT. The same quantity of molecular grade water as sample volume that is being processed should be used.

### Examination and Interpretation of Patient Specimen Results

Assessment of clinical specimen test results should be performed after the external positive and negative controls have been examined and determined to be valid and acceptable. If the controls are not valid, the patient results cannot be interpreted. The list of expected results is outlined in Table 2. If results are obtained that do not follow these guidelines, re-extract and re-test the sample. If repeat testing yields similar results, collect a fresh sample from the patient for testing.

**Table 2. Interpretation of patient sample results.**

Results <sup>a</sup>	Interpretation
<b>GAS POSITIVE</b>	<ul style="list-style-type: none"> <li>The <i>Streptococcus pyogenes</i> target has a Ct within the valid range and endpoint above the minimum setting.</li> </ul>
<b>GAS NEGATIVE</b>	<ul style="list-style-type: none"> <li>The <i>Streptococcus pyogenes</i> target did not amplify and the SPC has a Ct within the valid range and endpoint above the minimum setting.</li> </ul>
<b>UNR</b>	<ul style="list-style-type: none"> <li>Unresolved Result. No target amplification; No SPC amplification.</li> </ul>
<b>IND</b>	<ul style="list-style-type: none"> <li>Indeterminate due to BD MAX™ System failure (with Warning or Error Codes<sup>b</sup>)</li> </ul>
<b>INC</b>	<ul style="list-style-type: none"> <li>Incomplete Run (with Warning or Error Codes<sup>b</sup>)</li> </ul>

<sup>a</sup>A positive test result does not necessarily indicate the presence of viable infectious organisms. A positive result is indicative of the presence of target nucleic acid. A negative test result does not preclude the presence of infectious organisms and should not be used as the sole basis for treatment or other patient management decisions.

<sup>b</sup>Refer to the “Troubleshooting” section of the BD MAX™ System User’s Manual<sup>6</sup> for interpretation of warning and error codes.

**NOTE:** In the presence of a high concentration positive result for any target, the SPC may be adversely affected (no amplification or delayed). This is normal.

#### **REPEAT TEST PROCEDURE**

In case of instrument failure, repeat testing can be performed by setting up a new run using the original sample/specimen and a fresh SBT as described above in the “Specimen Preparation” section.

#### **LIMITATIONS OF THE PROCEDURE**

- For *in vitro* diagnostic use.
- This device is not designed as the sole means of diagnosis of infectious disease. By the inherent nature of the technology used for nucleic acid extraction and detection, nucleic acid can be detected from dead organisms. The Intended Use is limited to the detection of the presence of the nucleic acid signature of an organism, and not the diagnosis of disease or disease state.
- This product is intended for use with specimens collected using specimen collection and transport devices listed in the “Equipment and Materials Required But Not Provided” section.
- This product should only be used with BD MAX™ Open System Reagents on the BD MAX™ System.
- Incorrect test results may occur from improper specimen collection, handling or storage, technical error, sample mix-up or because the number of organisms in the specimen is below the analytical sensitivity of the test. Careful compliance with the package insert instructions and the BD MAX™ System User’s Manual<sup>6</sup> are necessary to avoid erroneous results.
- Good laboratory technique is essential for the proper performance of this assay. Due to the high analytical sensitivity of this test, extreme care should be taken to preserve the purity of all materials and reagents.
- A positive test result does not necessarily indicate the presence of viable infectious organisms. A positive result is indicative of the presence of target nucleic acid. A negative test result does not preclude presence of infectious organisms and should not be used as the sole basis for treatment or other patient management decisions.
- As with all PCR-based *in vitro* diagnostic tests, extremely low levels of target below the limit of detection of the assay may be detected, but results may not be reproducible.
- False negative results may occur due to loss of nucleic acid from inadequate collection, transport or storage of specimens, or due to an inadequate cell lysis and/or extraction. The Sample Processing Control has been added to the test to aid in the identification of specimens that contain inhibitors to PCR amplification and as a control for reagent integrity and of the assay system as a whole. The Sample Processing Control does not indicate if nucleic acid has been lost due to inadequate collection, transport or storage of specimens, or if cells have been

adequately lysed.

- The BioGX Group A Streptococcus – OSR for BD MAX™ results may sometimes be Unresolved due to an invalid Sample Processing Control, or be Indeterminate or Incomplete due to instrument failure, and require retesting that can lead to a delay obtaining final results.
- Mutations or polymorphisms in primer- or probe-binding regions may affect detection of new or unknown *Streptococcus pyogenes* resulting in a false negative result with the BioGX Group A Streptococcus – OSR for BD MAX™
- The BioGX Group A Streptococcus – OSR for BD MAX™ requires the use of two (2) optical channels from the BD MAX™ System: 530/565 channel and 680/715 channel.

## **PERFORMANCE CHARACTERISTICS**

### **Analytical and Diagnostic Specificity**

Specificity was determined by running negative sample matrix (Copan ESwab™ and Copan UTM®) spiked with positive control template. The BioGX Group A Streptococcus - OSR for BD MAX™ was positive for *Streptococcus pyogenes*.

The BioGX Group A Streptococcus - OSR for BD MAX™ was run with ATCC MSA-1002 (20 Strain Even Mix Genomic Material) which does not contain genomic DNA for *Streptococcus pyogenes*. Results were negative for *Streptococcus pyogenes*.

Dilution series of Zeptomatrix titrated *Streptococcus pyogenes* was tested against the BioGX Group A Streptococcus - OSR for BD MAX™ at titers between approximately  $4.62 \times 10^2$  and  $9.23 \times 10^3$  cfu/SBT. All dilutions tested were positive for *Streptococcus pyogenes*.

### **Analytical and Diagnostic Sensitivity**

The analytical sensitivity for the BioGX Group A Streptococcus - OSR for BD MAX™ was determined as follows: Dilution series of quantified positive synthetic DNA samples (BioGX template controls) for each target and clinical matrix were added to the SBT. All samples were tested in duplicate. The LOD for each collection device and sample type (oropharyngeal swab in Copan ESwab™ and Copan UTM®) was determined for 20 independent contrived samples. Analytical sensitivity (Limit of Detection, LoD) was defined as the lowest concentration at which 95% of all replicates tested positive (Table 3).

**Table 3. Analytical sensitivity for BioGX Group A Streptococcus - OSR for BD MAX™**

Target	LoD (copies per mL)  Oropharyngeal swab in Copan ESwab™	LoD (copies per mL)  Oropharyngeal swab in Copan UTM® (3 mL collection volume)	LoD (copies per mL)  Oropharyngeal swab in Copan UTM® (1 mL collection volume)
<i>Streptococcus pyogenes</i>	3.26 x 10 <sup>3</sup>	1.63 x 10 <sup>3</sup>	3.26 x 10 <sup>3</sup>

Analytical sensitivity during co-infection was tested by challenging the BioGX Group A Streptococcus – OSR for BD MAX™ in pairs of high concentration (10,000X LOD) of one target against low concentration (1X LOD) of another for all possible pairs in the test. All low concentration targets were positive and were not outcompeted by amplification of the high concentration target.

### **Reproducibility**

The reproducibility study was performed on *Streptococcus pyogenes* synthetic target template by three separate technicians independently on two BD MAX™ instruments. All users obtained equivalent results.

### **Manufacturing Reproducibility**

Two independent lots were manufactured at and were found to be equivalent based on internally established QC acceptance procedures.
















### **REFERENCES**

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## **REVISION HISTORY**

Revision	Date	Description of Change
05	22 SEP 2023	Clarification of long-term storage conditions and specify open pouch storage at 2-8C of reagents.
04	29 OCT 2021	Correction of manufacturing address on last page.
03	27 AUG 2021	Updated reagent quantity per pouch; included BioGX positive control template part number and updated open pouch stability. Updated Snap-4 image, added external control processing and result interpretation. Updated unit of measure of LoD, symbol table, branding, long-term storage temperature to 2-25C and shipment temperature.
02	09 NOV 2018	Added use of BD ExK 4-snap
01	30 AUG 2018	Initial Release

## SYMBOLS

Symbol	Meaning	Symbol	Meaning
	Catalog number		Contains sufficient for <n> tests
	CE mark of conformity		<i>In vitro</i> diagnostic medical device
	Do not reuse		Temperature limitation
	Batch code		Keep dry
	Caution		Keep away from sunlight
	Consult instructions for use		Expiration date
	Manufacturer		Biological Risks
	Control		



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