

Group A Streptococcus

- ▶▶ Group A *Streptococcus*, also known as group A beta-hemolytic streptococcus (GAS), is a gram-positive bacterium that grows on chains, producing white to grayish colonies surrounded by a halo of hemolysis when grown in blood agar medium. It differs from other beta-hemolytic streptococci by possessing, in its cell wall, a group A specific polysaccharide antigen (Lancefield antigen).
- ▶▶ It is spread mainly by contact, for example, through sneezing or kissing. Some people can carry the bacteria without showing signs of illness.
- ▶▶ Group A **Streptococcus** is usually responsible for upper respiratory tract infections and skin infections. In some cases, infection with these microorganisms can go beyond acute episodes and trigger serious post-infectious syndromes such as acute rheumatic fever and glomerulonephritis. Diseases caused by this microorganism are usually classified as suppurative diseases (pharyngotonsillitis, scarlet fever, impetigo, erysipelas, toxic shock syndrome and necrotizing fasciitis) and non-suppurative (rheumatic fever and acute glomerulonephritis).
- ▶▶ In order to avoid these complications, a timely and adequate diagnosis and treatment is essential to avoid the risk of the appearance of suppurative sequelae and, especially, non-suppurative sequelae.



"Ready & Easy-to-use" kits.
Lyophilised product



Transport and storage at **room temperature**.
Shelf-life: 24 months



Validated according to **ISO 13485**
and **CE marked**



Group A Streptococcus

VIASURE Group A Streptococcus Real Time PCR Detection Kit is designed for the specific detection of DNA of the *Streptococcus pyogenes* (group A (beta-hemolytic) *Streptococcus* (Strep-A)) in pharyngeal and otic exudate swabs from patients with signs and symptoms of respiratory infection.

This test is intended to be used as an aid in the diagnosis of *Streptococcus pyogenes* infection in combination with clinical and epidemiological risk factors. DNA is extracted from specimens, multiplied using Real Time amplification and detected using specific primers and a fluorescent reporter dye probe for *Streptococcus pyogenes*.

Analytical sensitivity

VIASURE Group A Streptococcus Real Time PCR Detection Kit has a detection limit of ≥ 10 DNA copies per reaction for *Streptococcus pyogenes* (Figure 1).

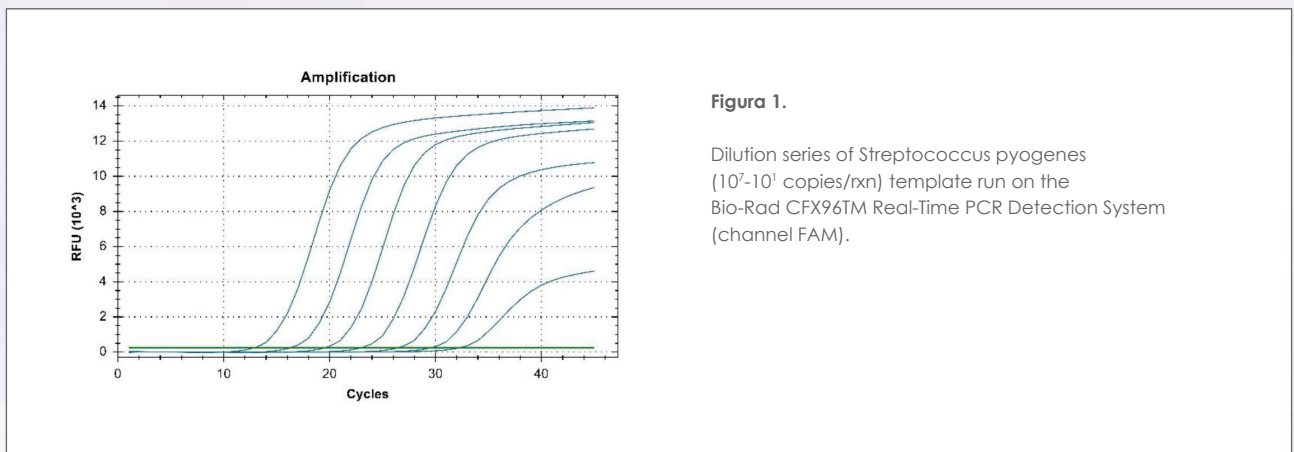


Figure 1.

Dilution series of *Streptococcus pyogenes* (10^7 - 10^1 copies/rxn) template run on the Bio-Rad CFX96TM Real-Time PCR Detection System (channel FAM).

References - VIASURE Group A Streptococcus Real Time PCR Detection Kit -

6 x 8-well strips, low profile _____ VS-GAS106L

12 x 8-well strips, low profile _____ VS-GAS112L

96-well plate, low profile _____ VS-GAS113L

1 x 8-well strips, low profile _____ VS-GAS101L

6 x 8-well strips, high profile _____ VS-GAS106H

12 x 8-well strips, high profile _____ VS-GAS112H

96-well plate, high profile _____ VS-GAS113H

1 x 8-well strips, high profile _____ VS-GAS101H

TUBE FORMAT WITH INTERNAL CONTROL: 4 tubes x 24 reactions _____ VS-GAS196T

OPEN and ROTOR-GENE FOMAT with Extraction Control (read the included instructions for use).

CerTest
BIOTEC

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For more information and use procedure,
read the instructions for use included in this product.



VIASURE/GAS-0421EN