

Native Streptococcus Agalactiae Cells, Heat-Inactivated

Cat. No. STR-580 Lot. No. (See product label)

SPECIFICATION

Product Overview

Heat-killed Streptococcus agalactiae cells in dextran solution. Antigen is intended for use as a positive control in immunoassay development for Streptococcus detection.

Background

Streptococcus agalactiae (also known as group B streptococcus or GBS) is a gram-positive coccus (round bacterium) with a tendency to form chains (as reflected by the genus name Streptococcus). It is a beta-hemolytic, catalase-negative, and facultative anaerobe. It is surrounded by a bacterial capsule composed of polysaccharides (exopolysaccharide). The species is subclassified into ten serotypes (Ia, Ib, II–IX) depending on the immunologic reactivity of their polysaccharide capsule. GBS is a harmless commensal bacterium being part of the human microbiota colonizing the gastrointestinal and genitourinary tract of up to 30% of healthy human adults (asymptomatic carriers). Nevertheless, GBS can cause severe invasive infections especially in newborns, the elderly, and people with compromised immune systems. S. agalactiae is also a common veterinary pathogen, because it can cause bovine mastitis (inflammation of the udder) in dairy cows and is an important source of economic loss for the industry. GBS in cows can either produce an acute febrile disease or a subacute more chronic condition. Both lead to diminishing milk production (hence its name: agalactiae meaning 'of no milk') (Edwards & Baker, 2010).

Notes

This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

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Type	Native
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ClassID 1	Infectious Disease
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GENE INFORMATION

Synonyms	Streptococcus Agalactiae
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