PNEUMOCOCCUS

- Simple
- **Fast**
- Ready to use



S T A T E N S S E R U M I N S T I T U T

prevents and controls infectious diseases, biological threats and congenital disorders

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Background

The Pneumotest-Latex kit is simple and fast to use for partial serotyping (group/type) of *S. pneumoniae.* Using the kit 90-95% of the pneumococci most commonly isolated (from blood and CSF) can be typed, including the related groups/types in the 23 valent vaccine.

Application

An overnight bacterial culture of pneumococci (Todd-Hewitt broth) or one colony from a 5-10% blood agar plate suspended in saline are mixed with the Pneumotest-Latex suspension. Use the Pneumotest-Latex chessboard for determination of group/ type (se below). If further typing is needed, use SSI traditional pneumococcal antisera using the Quellung reaction (Neufeld method).

Description

The 14 latex suspensions (Pool A to I, and P to T) are ready to use and delivered in 1.5 ml plastic vials with a droplet delivery system, administering approximately 10 μ l.

The antibodies in the latex suspension are raised in rabbits against the capsular polysaccharides present in the pool.

The latex suspension is preserved with 15 mM (0.0975%) sodium azide.



Procedure

The latex agglutination test is performed as follows:

- 1 droplet (10 μl) of latex suspension is placed on the reaction card.
- 1 droplet (10 µl) of an overnight bacterial culture or a bacterial suspension in saline is placed beside the latex droplet.
- The two suspensions are mixed.

A positive reaction is indicated by an agglutination appearing within 5 to 10 seconds.

If the reaction time exceeds 30 seconds, false positive reactions may occur.

Limitations

The Pneumotest-Latex kit is intended for partial typing of pure cultures of pneumococci.

Storage and shelf life

The kit should be kept in a dark place at 2-8°C. The expiry date is printed on the package.

Ordering and Information

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Pool	Р	Q	R	S	Т	Non-vaccine groups/types
A	1	18 (18F, 18A, 18B, 18C)	4	5	2	
В	19 (19F , 19A , 19B, 19C)	6 (6A, 6B , 6C)	3	8		
С	7 (7 F, 7A, 7B, 7C)				20	24 (24F, 24A, 24B) 31, 40
D			9 (9A, 9L, 9N, 9V)		11 (11F, 11A , 11B, 11C, 11D)	16 (16F, 16A) 36, 37
E			12 (12 F, 12A, 12B)	10 (10F, 10A , 10B, 10C)	33 (33F , 33A, 33B, 33C, 33D)	21, 39
F				17 (17F, 17A)	22 (22 F, 22A)	27 32 (32F, 32A) 41 (41F, 41A)
G						29, 34 35 (35F, 35A, 35B, 35C) 42 47 (47F, 47A)
Н	14	23 (23F , 23A, 23B)		15 (15F, 15A, 15B , 15C)		13 28 (28F, 28A)
I						25 (25F, 25A) 38, 43, 44, 45, 46, 48

Boldface indicates that the group/type is included in the 23-valent pneumococcal polysaccharide vaccine. () states types within a group.