

PNEUMOCOCCUS

7-VALENT LATEX KIT



STATENS
SERUM
INSTITUT

*prevents and controls
infectious diseases,
biological threats and
congenital disorders*

- *Serotyping of pneumococci*
- *7 childhood vaccine types*
- *Easy using latex reaction*



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Description

The Pneumococcus 7-valent Latex Kit is simple and fast to use for serotyping of the seven *S. pneumoniae* serotypes included in the conjugate vaccine used for children. Serotype 4, 6B, 9V, 14, 18C, 19F and 23F can be identified using the kit. One pool including all seven serotypes and eight individual latex suspensions are ready to use and delivered in 1.5 ml plastic vials with a droplet delivery system, administering approximately 10 µl. The antibodies in the latex suspension are raised in rabbits against the capsular polysaccharide present in each solution. The latex suspension is preserved with 15 mM (0.0975%) sodium azide.

Background

Pneumococcal infections are a leading cause of childhood death. A conjugate vaccine has been developed which offers protection against pneumococcal serotypes 4, 6B, 9V, 14, 18C, 19F and 23F. The surveillance of pneumococcal types worldwide is important for epidemiological use and to secure an optimal composition of pneumococcal vaccines. The Pneumococcus 7-valent Latex Kit offers the opportunity quickly to determine whether a pneumococcal isolate is a serotype included in the childhood vaccine or not.

Procedure

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 latex suspension 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 Pneumococcus 7-valent Latex Kit is intended for 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.

Pneumococcus 7-valent Latex Kit, Article No. 71733.

Ordering and Information

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Pneumococcal serotypes								
Latex sera	4	6B	9V	14	18C	19F	23F	All other
Pool 7-valent Latex	+	+	+	+	+	+	+	-
Type 4 Latex	+	-	-	-	-	-	-	-
Factor 6c Latex	-	+	-	-	-	-	-	-
Factor 9g Latex	-	-	+	-	-	-	-	-
Type 14 Latex	-	-	-	+	-	-	-	-
Factor 18c Latex	-	-	-	-	+	-	-	(-) ¹
Factor 18f Latex	-	-	-	-	-	-	-	(-) ¹
Factor 19b Latex	-	-	-	-	-	+	-	-
Factor 23b Latex	-	-	-	-	-	-	+	-

¹ Will be positive for serotype 18F.