

Description

The *Shigella* antisera from Statens Serum Institut are intended for serotyping *Shigella* strains.

The polyclonal antisera against *S. dysenteriae*, *S. flexneri* and *S. boydii* are raised in rabbits and consist of O antisera. The antisera against *S. sonnei* are monoclonal antibodies. All antisera are absorbed, ready to use and delivered in 3 mL bottles that should last for typing of 150 strains.

Background

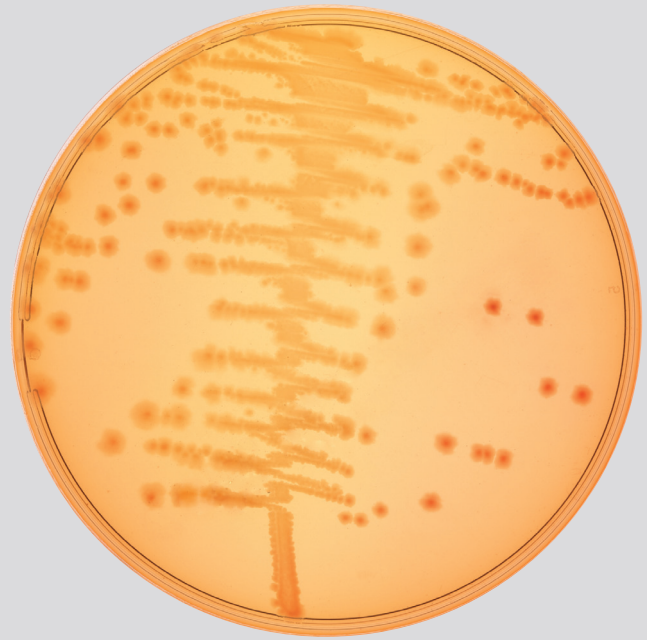
Shigella can cause both bloody diarrhea (dysentery) and nonbloody diarrhea. There exists four species: *S. dysenteriae* (15 serotypes), *S. flexneri* (8 serotypes, with serotype 1 to 5 being subdivided into 10 sub-serotypes), *S. boydii* (19 serotypes) and *S. sonnei* (1 serotype, two phases).

The serologic identification of *Shigella* species is important for both clinical and epidemiologic purposes. *S. flexneri* and *S. boydii* are often biochemically identical so serologic testing is essential.

In the developed world *S. sonnei* and *S. flexneri* are the most prevalent serotypes whereas in the developing world *S. flexneri* and *S. dysenteriae* (especially serotype 1) are most frequent.

Application

The *Shigella* strain is grown over night on a non-selective or selective agar medium. A small amount of bacterial mass is transferred to a slide and mixed with a drop of antiserum. If the bacteria are mixed with a homologous antiserum, the cells are bound together through antigen-antibody bonds to form aggregates (agglutination). The agglutination can be read after the slide has been tilted 5-10 seconds. It is easier to read the result by the naked eye if the slide is hold in front of a light source against a black background.



Culture of *S. sonnei*

Storage and shelf life

Store at 2-8°C in a dark place.

Expiry date is printed on the package.

Available products

Article No.	Product	Type	Packing
66442	<i>S. dysenteriae</i> pool antiserum	(type 1-10)	3 mL
66443	<i>S. flexneri</i> pool antiserum	(type 1-6, group 3,4(y); 6;7,8(x))	3 mL
66444	<i>S. boydii</i> pool antiserum	(type 1-15)	3 mL
66445	<i>S. sonnei</i> pool antiserum	(phase I and II)	3 mL