- Identification of *S. Enteritidis*
- Identification of *S. Typhimurium*
- 8 antisera
- Quick results
Description
The Salmonella Sero-Quick ID Kit consists of eight antisera, and is the minimum of antisera needed for identification of *S. Enteritidis* (O:9,12:g,m:-) and *S. Typhimurium* (O:4,5,12:i:1,2).
The antisera are delivered in dropper bottles containing ready to use dilutions and can be renewed separately. Around 100 tests can be performed with the Sero-Quick ID Kit.
The diagnostic Salmonella O and H antisera are polyclonal antisera made specific by absorption.

Background
*Salmonella Enteritidis* and *Salmonella Typhimurium* are the most common serotypes in the world and constitute 82% of all Salmonella strains isolated from humans1. It is therefore highly important to be able to serotype these strains quickly.

Application
The eight antisera are used as indicated below. At first the O antisera are tested and thereafter the H antisera and phase inversion antisera are used.
The serotyping may be expanded to identify additional serotypes, and Statens Serum Institut offers assistance in composing a panel covering the specific needs of our customers.

Reaction chart

<table>
<thead>
<tr>
<th>O antisera</th>
<th>Reaction</th>
<th>Typhimurium</th>
<th>Culture medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>O:4</td>
<td></td>
<td>+</td>
<td>Beef</td>
</tr>
<tr>
<td>O:9</td>
<td>+</td>
<td>+</td>
<td>extract agar</td>
</tr>
</tbody>
</table>

H antisera

| H:1        | n.p.     | +           | Beef           |
| H:m        | +        | n.p.        | extract agar   |
| H:2        | n.p.     | +           | or             |
| H:q,s,t,p,u| n.p.     | +           | Swarm agar     |

Phase inversion antisera

| SG2        | n.p.     | +a          | Swarm agar     |
| SG6        | n.p.     | +b          |                |

n.p. = not performed

a: SG2 is used for phase inversion of strains initially expressing H:i
b: SG6 is used for phase inversion of strains initially expressing H:1,2

Flow chart

Storage and shelf life
Store at 2-8°C in a dark place.
Expiry date is printed on the package.

Available product
Article No. 62984
Salmonella Sero-Quick ID Kit, 1 box

References
2 Salmonella surveillance: a global survey of public health serotyping.

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Information and ordering
Statens Serum Institut
SSI Diagnostica
2 Herredsvejen
3400 Hillerød
Denmark
Tel.: +45 4829 9178

Antiseren

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<th>H:q,s,t,p,u</th>
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This antiserum is used for exclusion of other serotypes belonging to serogroup O:9 (D1) that expresses H:g or H:m,t as first H phase.

Phase inversion antiseren

Many *Salmonella* serotypes are diphasic, having two flagella antigens. However a *Salmonella* bacterium expresses only one flagella antigen at a time, ex. *Salmonella Typhimurium* (O:4,5,12:i:1,2) either expresses the first phase antigen H:i or the second phase antigen H:1,2.
In case the strain in question expresses the antigen H:i the second phase antigen (H:1,2) may be forced to appear by growing the culture in a soft agar plate containing phase inversion antiserum against the H:i (phase inversion antiserum SG2F). *S. Enteritidis* is monophasic and therefore phase inversion is not needed.

Tel: +44(0)1235 431390
sales@oxfordbiosystems.com
www.oxfordbiosystems.com