

# Anti-Salmonella ELISA

Innovative Diagnosis of Reactive Arthritis

REACTIVE ARTHRITIS

Autoimmune DX



**IMTEC**

**Human**

Diagnostics Worldwide

# Anti-Salmonella ELISA

## Innovative Diagnosis of Reactive Arthritis

### Advantages of the Anti-Salmonella ELISA

- > Highly sensitive and specific detection of persistent or past salmonella infections
- > Determination of IgA or IgG/IgA/IgM
- > Ready-to-use reagents and controls
- > Higher sensitivity (88.5 %) than the widal test (38.5 %) for diagnosis of persistent salmonella infections
- > Cut-off controls for reliable interpretation
- > Unique antigen selection based on lipopolysaccharides of *s. typhimurium* and *s. enteritidis*

### Diagnosis of Reactive Arthritis

Reactive arthritis is a non-septic arthritis following an abarticularbacterial infection.

Salmonella is the most common organism associated with reactive arthritis.

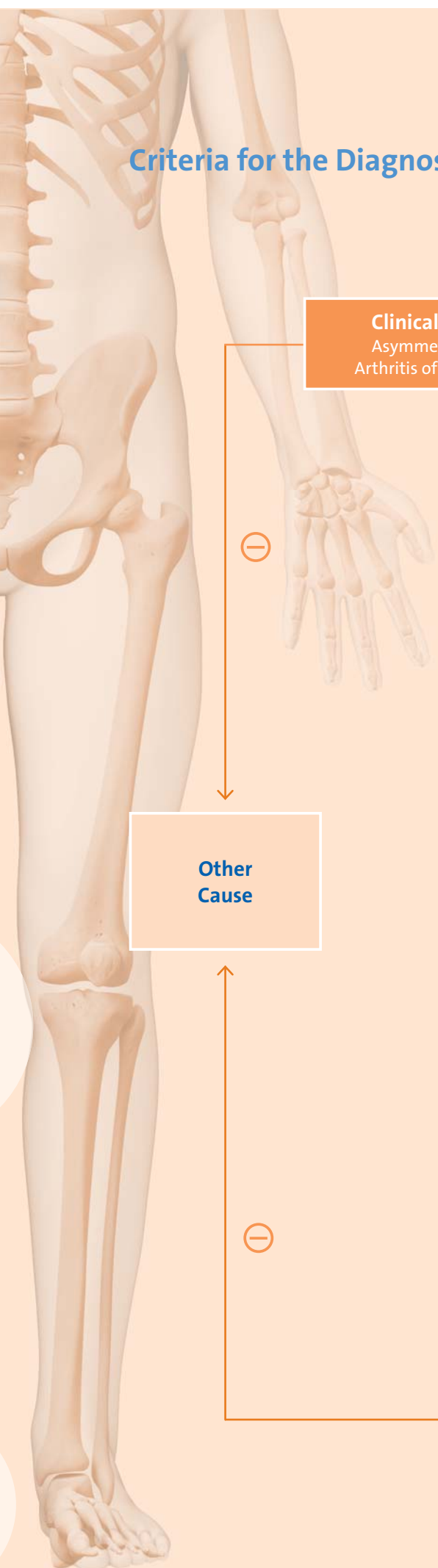
The interval between preceding infection and onset of arthritis is several days but mostly several weeks.

Since the infection dates several weeks back the direct proof in urine or stool is not possible anymore.

Therefore the detection of antibodies (IgA, IgM and IgG), is the most effective method to give evidence to a past infection. About 50% of affected patients demonstrate the genetic marker HLA B27.

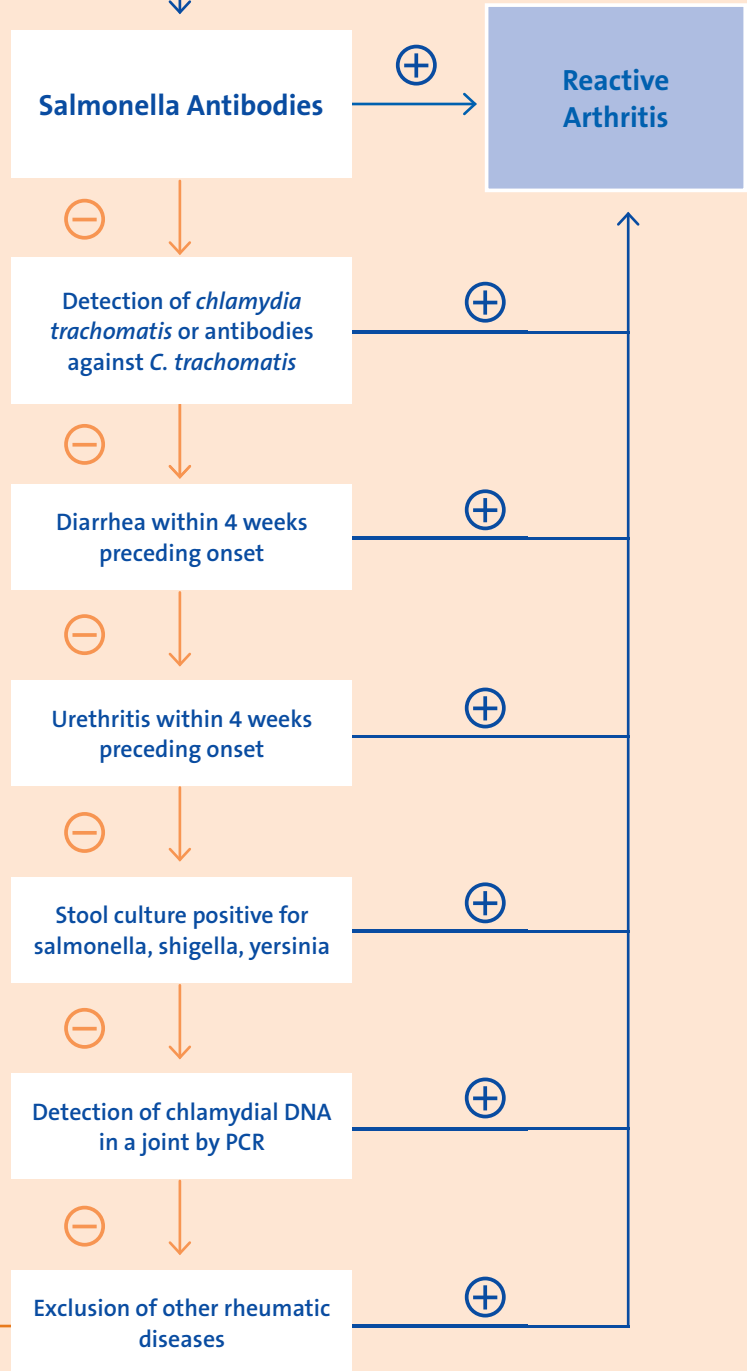


# Criteria for the Diagnosis of Reactive Arthritis



**Clinical Symptoms**  
Asymmetrical arthritis  
Arthritis of the lower limbs

**Other Cause**



# Anti-Salmonella ELISA

Fast and Reliable Results

## Assay Characteristics

### Principle

ELISA

### Sample material

Serum

### Sample volume

10µl

### Antigen presentation

Immobilized lipopolysaccharides  
from *s. typhimurium* and *s. enteritidis*

### Specificity

IgA or IgG/IgA/IgM

### Interpretation

Cut-off control

### Incubation times [min]

60/30/10

### Detection / λ

450nm / 630nm

## Ordering Information

### Enzyme immunoassay

		REF
<b>IMTEC-Salmonella-Antibodies Screen (cut-off)</b>	96 tests	<a href="#">ITC40040</a>
ELISA for the detection of antibodies against <i>s. typhimurium</i> and <i>s. enteritidis</i> (Ig(GAM))		

<b>IMTEC-Salmonella-Antibodies IgA (cut-off)</b>	96 tests	<a href="#">ITC40050</a>
ELISA for the detection of antibodies against <i>s. typhimurium</i> and <i>s. enteritidis</i> (IgA)		

### References

1. Isomäki O. et al., Lancet 1989, 24:1411-1414
2. Mäki-Ikola O. et al., J.Infec.Dis. 1991, 164: 1141-1148
3. Sieper J. et al., J. Rheumatol 1999, 26: 1222-1224
4. Sieper J. et al., Arthritis Rheum 2002, 46:319-327

