

[EXPECTED VALUES]

For women attending STD clinics and other high-risk populations, the prevalence of chlamydia infection has been reported to be between 20% and 30%. In a low-risk population such as those patients attending obstetrics and gynaecology clinics, the prevalence is approximately 5% or less.

Reports show that for men attending STD clinics, the prevalence of chlamydia infection is approximately 8% in asymptomatic men and 11% in symptomatic men.^{1,2} Normal carriage rates of chlamydia in asymptomatic men are less than 5%.³

Sensitivity

The Chlamydia Rapid Test has been evaluated with specimens obtained from patients of STD clinics. PCR is used as the reference method for the Chlamydia Rapid Test. Specimens were considered positive if PCR indicated a positive result. Specimens were considered negative if PCR indicated a negative result. The results show that Chlamydia Rapid Test has a high sensitivity relative to PCR.

Specificity

The Chlamydia Rapid Test uses an antibody that is highly specific for chlamydia antigen in female cervical swab, male urethral swab or male urine specimens. The results show that the Chlamydia Rapid Test has a high specificity relative to PCR.

For Female Cervical Swab Specimens

| Method | Results | PCR | | Total Results |
|--|----------|----------|----------|---------------|
| | | Positive | Negative | |
| Chlamydia Rapid Test Cassette (Swab/Urine) | Positive | 42 | 4 | 46 |
| | Negative | 3 | 156 | 159 |
| Total Results | | 45 | 160 | 205 |

Relative Sensitivity: 93.3% (81.7%-98.6%)*

Relative Specificity: 97.5% (93.7%-99.3%)*

Overall Accuracy: 96.6% (93.1%-98.6%)*

*95% Confidence Intervals

For Male Urethral Swab Specimens

| Method | Results | PCR | | Total Results |
|--|----------|----------|----------|---------------|
| | | Positive | Negative | |
| Chlamydia Rapid Test Cassette (Swab/Urine) | Positive | 50 | 5 | 55 |
| | Negative | 8 | 115 | 123 |
| Total Results | | 58 | 120 | 178 |

Relative Sensitivity: 86.2% (74.6%-93.9%)*

Relative Specificity: 95.8% (90.5%-98.6%)*

Overall Accuracy: 92.7% (87.8%-96.1%)*

*95% Confidence Intervals

For Male Urine Specimens

| Method | Results | PCR | | Total Results |
|--|----------|----------|----------|---------------|
| | | Positive | Negative | |
| Chlamydia Rapid Test Cassette (Swab/Urine) | Positive | 35 | 0 | 35 |
| | Negative | 2 | 60 | 62 |
| Total Results | | 37 | 60 | 97 |

Relative Sensitivity: 94.6% (81.8%-99.3%)*

Relative Specificity: >99.9% (95.1%-100%)*

Overall Accuracy: 97.9% (92.7%-99.7%)*

*95% Confidence Interval

[CROSS REACTIVITY]

The antibody used in the Chlamydia Rapid Test has been shown to detect all known chlamydia serovars. Chlamydia psittaci and chlamydia pneumoniae strains have been tested with the Chlamydia Rapid Test and were shown to cross react when tested in suspensions of 109 colony forming units (CFU)/ml. Cross reactivity with other organisms has been studied using suspensions of 109 CFU/ml. The following organisms were found negative when tested with the Chlamydia Rapid Test:

- *Acinetobacter calcoaceticus*
- *Acinetobacter spp*
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Staphylococcus aureus*
- *Klebsiella pneumoniae*
- *Pseudomonas aeruginosa*
- *Neisseria meningitidis*
- *Salmonella choleraesuis*
- *Candida albicans*
- *Proteus vulgaris*
- *Gardnerella vaginalis*
- *Proteus mirabilis*
- *Neisseria gonorrhoeae*
- *Group B/C Streptococcus*
- *Haemophilus influenzae*
- *Branhamella catarrhalis*

[BIBLIOGRAPHY]

- Sanders J.W. et al Evaluation of an Enzyme Immunoassay for Detection of Chlamydia trachomatis in Urine of Asymptomatic Men. J. Clinical Microbiology, (1994) 32, 24-27.
- Jaschek, G. et al Direct Detection of Chlamydia trachomatis in Urine Specimens from Symptomatic and Asymptomatic Men by Using a Rapid Polymerase Chain Reaction Assay. J. Clinical Microbiology, (1993) 31, 1209-1212.
- Schachter, J Sexually transmitted Chlamydia trachomatis infection. Postgraduate Medicine, (1982) 72, 60-69.

Index of Symbols

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|--|----------------------------------|--|------------------------------|--|---------------------------|
| | Consult instructions for use | | Tests per kit | | Authorised Representative |
| | For in vitro diagnostic use only | | Use by | | Do not reuse |
| | Store between 2-30°C | | Lot Number | | Catalogue # |
| | Do not use if package is damaged | | Consult Instructions for Use | | Manufacturer |

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