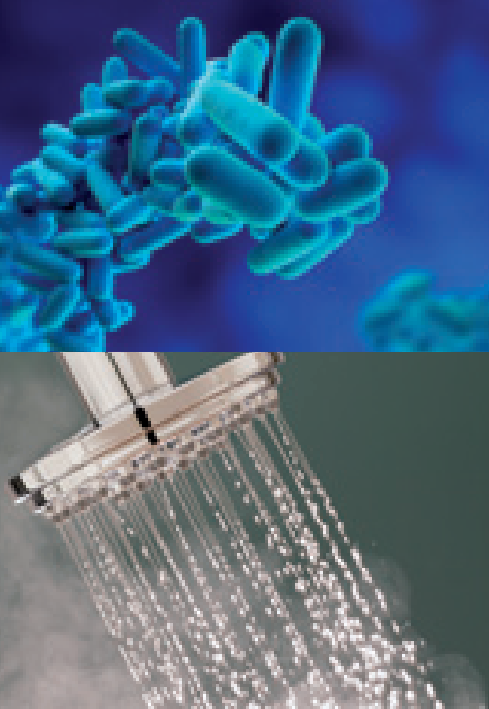




Lateral Flow Tests: *Legionella pneumophila*

Xpect™ Legionella



A rapid immunochromatographic test for the direct detection of *Legionella pneumophila* antigen in human urine samples

- Designed to detect both serogroups 1 and 6
- Excellent sensitivity and specificity
- Easy to use
- Room temperature storage

Xpect™ Legionella

Code: R24680 (20 tests)

A rapid urinary antigen test to aid the presumptive diagnosis of *Legionella pneumophila* (SG1 and 6) infection

Pneumonia caused by *Legionella pneumophila* was first recognised in 1977 after an outbreak among attendees at the 1976 American Legion convention. Since then infection by *Legionella* spp. has been found to be an important cause of community-acquired and nosocomial pneumonia. *Legionella pneumophila* serogroup 1 is the most frequent among human isolates, followed by *L. pneumophila* serogroup 6 according to the frequency of isolation from clinical samples¹.

Pneumonia caused by *Legionella pneumophila* has no particular clinical features to distinguish it from other pneumonias. The use of Xpect Legionella allows early diagnosis and initiation of appropriate antibiotic therapy.

Table 1: Primary diagnosis in adult patients

		Laboratory Diagnosis	
		+	-
Xpect Legionella	+	48	0
	-	3	86
TOTAL		51	86

Sensitivity:	94.1%
Specificity:	100%
Positive predictive value:	100%
Negative predictive value:	96.6%

Positive laboratory diagnosis was determined by a positive urine antigen test and at least one of the following: seroconversion in an IgM and/or IgG assay, a positive culture on a lower respiratory tract sample, and/or PCR on a lower respiratory tract sample.

Procedure

- Mix specimens thoroughly prior to testing.
- Remove the test device from the foil pouch when ready to perform the test and place it on a flat surface.
- Label the device with patient or control identification.
- Use a transfer pipette to dispense 0.2 ml (second graduated mark from tip of pipette) of specimen into the center of the sample well of the test device.
- Read and record the test results visually at 45 minutes according to the Interpretation section. (Strong positive results may be apparent within 15 minutes. Do not interpret results as negative until 45 minutes have elapsed.)

Interpretation of Results



Positive Test (antigen present):

A positive test is indicated by two black lines; one in the TEST region and one in the control (CTRL) region.

A complete, black, clearly visible test band of any intensity should be interpreted as positive.

A positive test indicates the presence of *L. pneumophila* serogroup 1 or 6 antigen in the sample.



Negative Result (antigen not detected):

A negative test is indicated by only one black line in the control (CTRL) region.

A negative test indicates that *L. pneumophila* serogroup 1 and 6 antigens are absent or below the detection limit of the test.

Xpect™ Legionella

Code: R24680

(20 tests)

Kit contents:

Instruction leaflet

20 x test devices, individually foil wrapped

20 x disposable transfer pipettes

1 x 1ml positive control

1 x 1ml negative control

Additional Xpect products also available include:

Xpect Flu A&B, Code: R24600 (20 tests)

Xpect Flu A&B control swabs, Code: R246003 (20 tests)

Xpect RSV, Code: R24601 (30 tests)

Xpect RSV liquid control, Code: R246012 (2 vials)

Reference

1. Chen, C., Chen, K., Hsueh, P., and Yang, P. (2006) *J. Formos. Med. Assoc.* **105**:256-262.



DEDICATED TO MICROBIOLOGY

Oxoid, Wade Road, Basingstoke,
Hants RG24 8PW

Tel: +44 (0) 1256 841144

Fax: +44 (0) 1256 329728

Email: oxoid.info@thermofisher.com

www.oxoid.com

www.thermofisher.com