

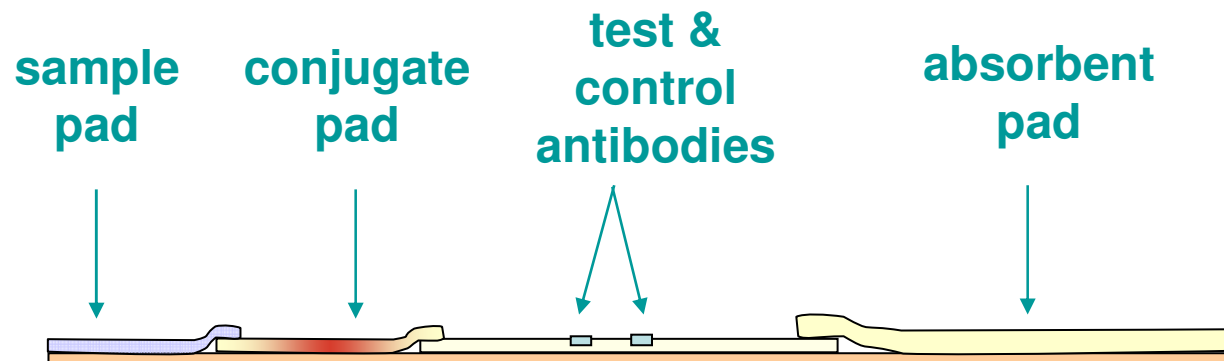
A novel rapid field test for *Legionella pneumophila* sg 1

Dr Neil Polwart

hydrosense[®]

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The principle...

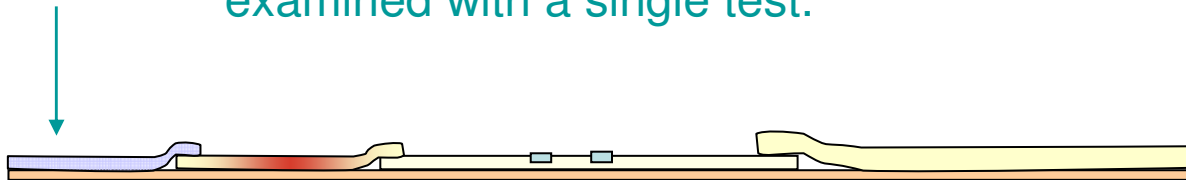


The principle...

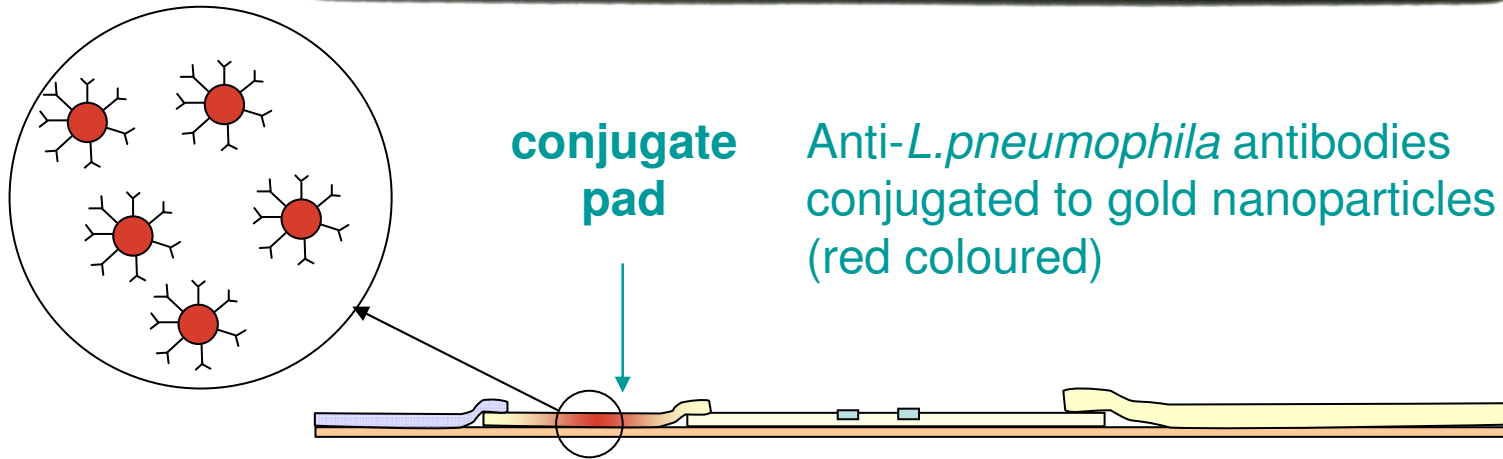


**sample
pad**

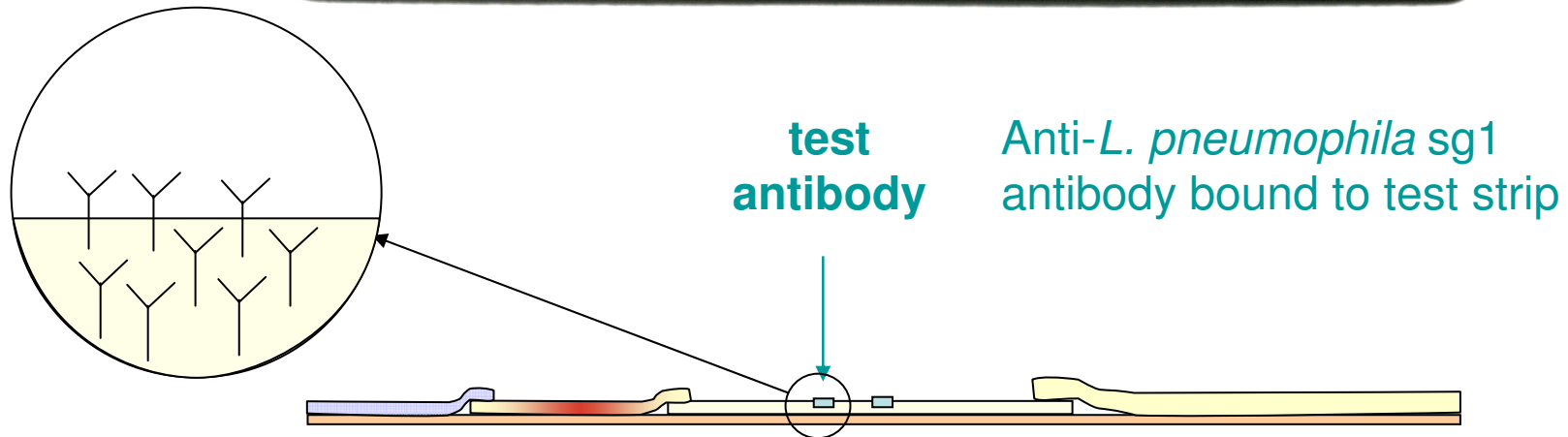
Containing dried 'buffers' and 'conditioning agents' to enable a wide range of samples to be examined with a single test.



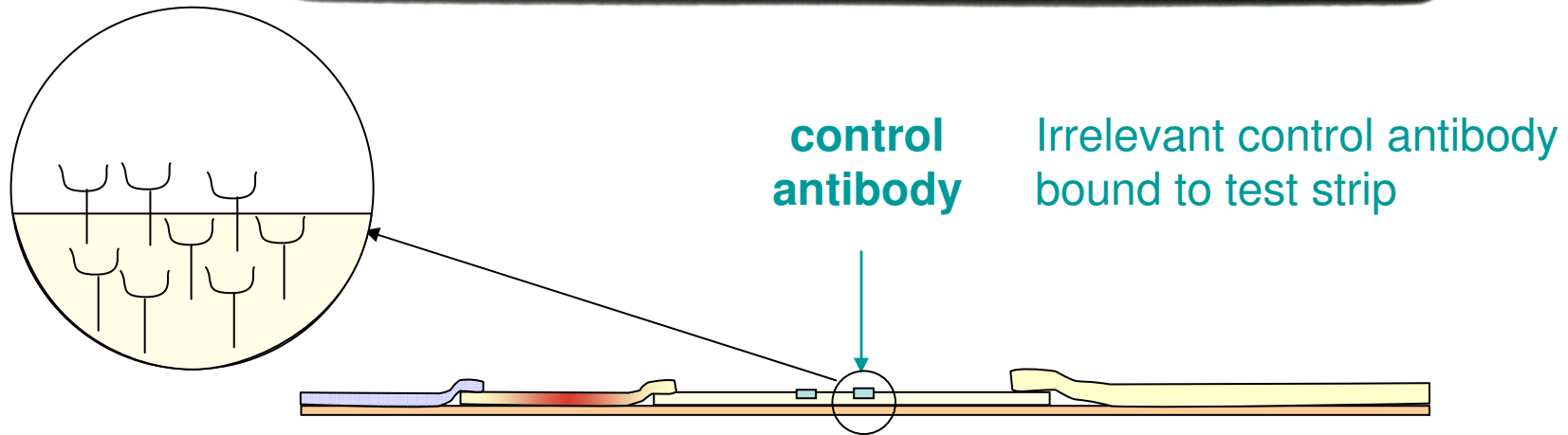
The principle...



The principle...



The principle...

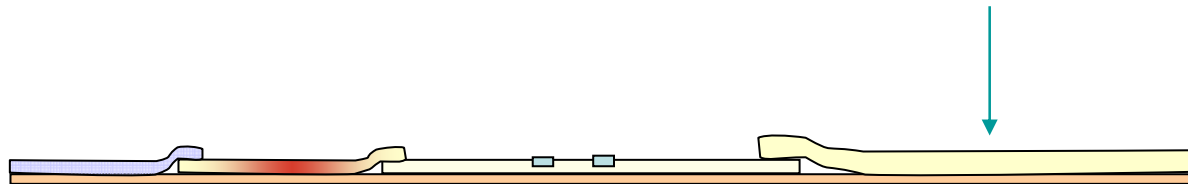


The principle...



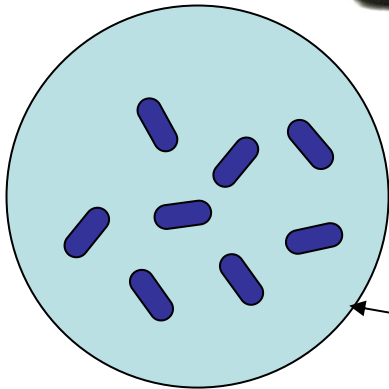
Flow by capillary action driven by:

**absorbent
pad**

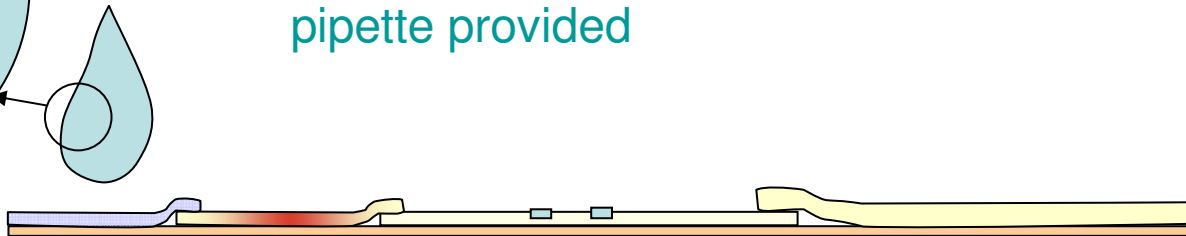


hydro sense®

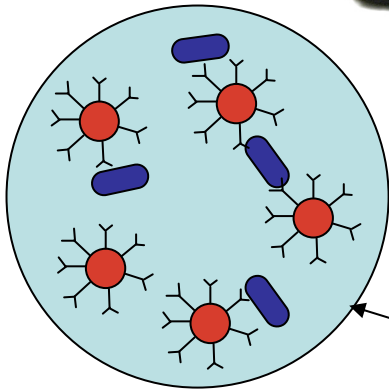
The principle...



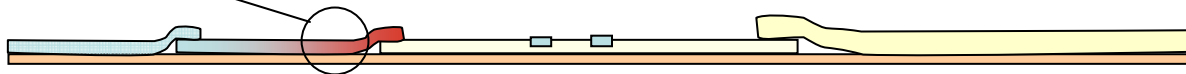
100 μ L sample added using 'exact' volume pipette provided



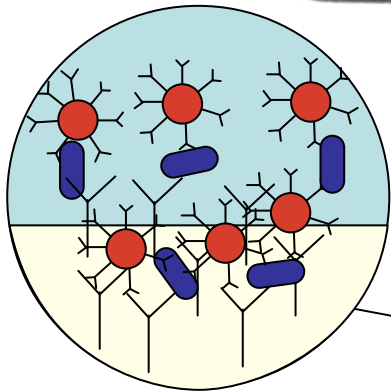
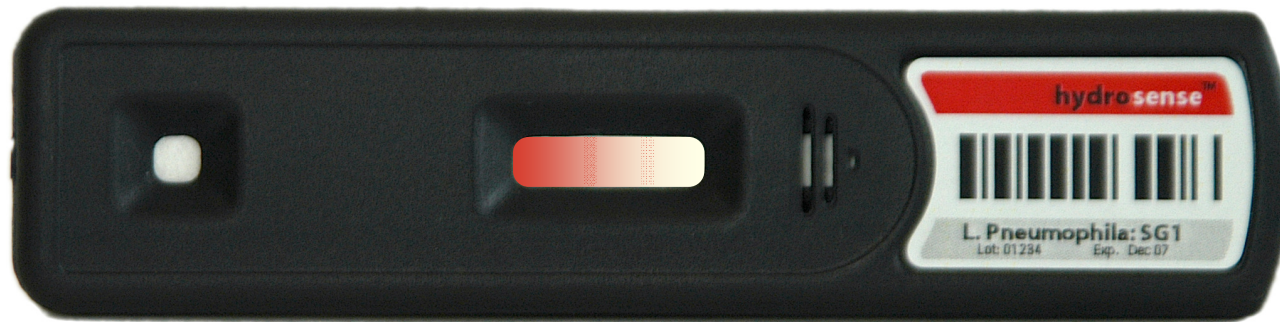
The principle...



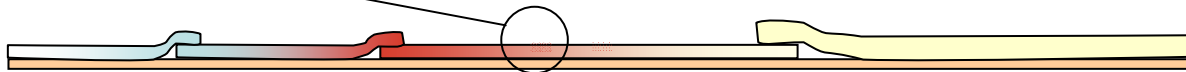
Sample starts to flow along test. Coloured antibody conjugate binds to Legionella antigen in sample.



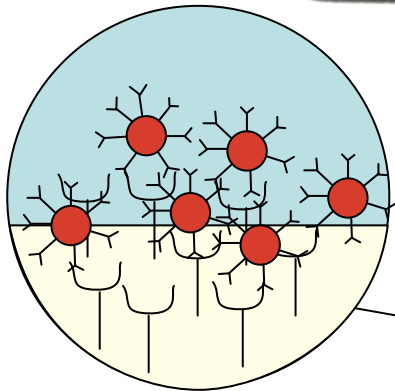
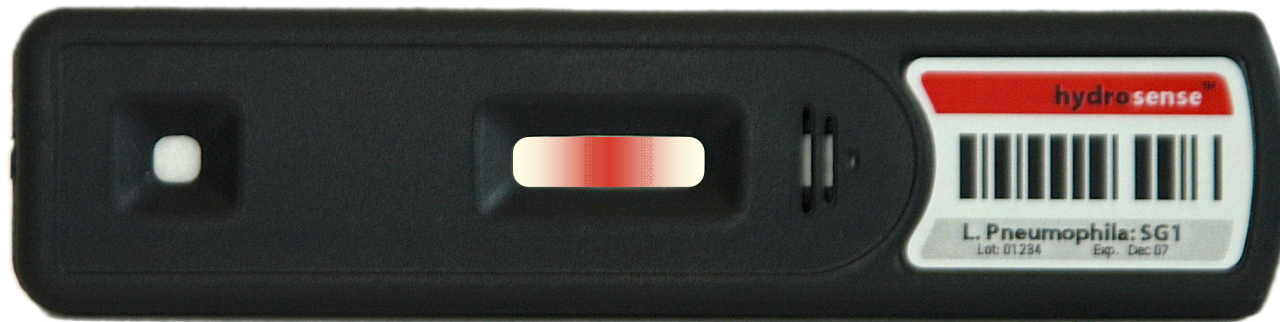
The principle...



On encountering the test antibody any Legionella (sg1) antigen becomes 'captured' forming a red line.



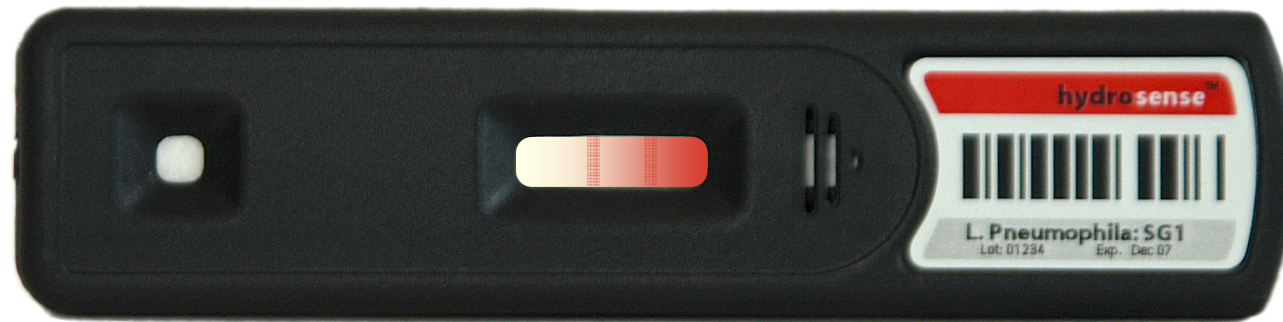
The principle...



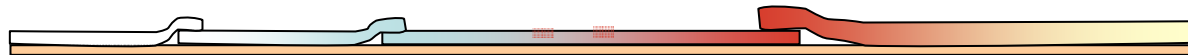
On encountering the control antibody 'free' gold particles becomes 'captured' forming a red line.



The principle...

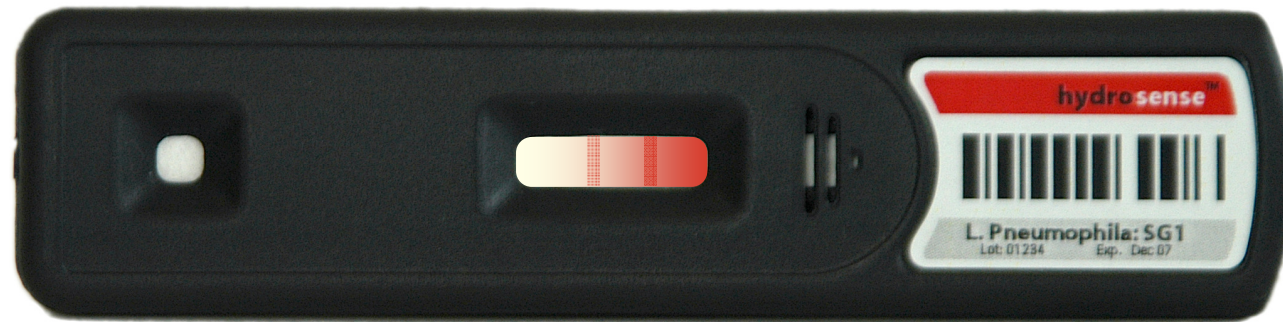


...and the test and control lines 'develop'...

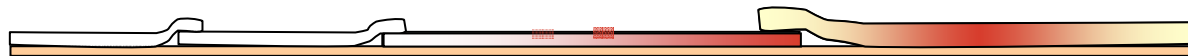


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The principle...



...the background clears and...



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The principle...



...after 25 minutes the test reveals either:
2 – red lines – A POSITIVE RESULT OR



The principle...



1 – red line – A NEGATIVE RESULT



hydro sense®

Key features

- Detects *Legionella pneumophila* s.g.1
- Operator time 1 minute (plus filtration where required)
- Test time 25 minutes
- Small, portable, simple to use
- Visual response
- Limit of detection 100 CFU/mL
 - Enhanced by up to 1000x using filtration