

INTENDED USE

For the bipolar staining of *Yersinia* species and other Gram negative bacteria in prepared slides from clinical samples.

SUMMARY AND EXPLANATION

A bipolar stain is a particular staining pattern that colours only the two opposite poles of the microorganism in question, leaving the rest of the bacterium unstained or a lighter colour.

PRINCIPLE OF THE TEST

Yersinia pestis is a Gram negative bacillus with rounded ends occurring in pairs or very short chains. Bipolar staining ('safety pin' appearance) and vacuolated involutions forms are characteristic for the organism. Bipolar staining is characteristic and can be visualised with Wayson's stain.

MATERIALS PROVIDED

-	PL.7121	Wayson's Stain	250 ml
-	PL.7121/5	Wayson's Stain	500 ml

Per 100ml solution:

- Wayson's Stain contains 34g Methylene Blue powder and 0.09g Basic Fuchsin powder.

MATERIALS REQUIRED BUT NOT PROVIDED

- Glass slides
- Inoculating loop
- Microscope
- Immersion Oil PL.396

STABILITY AND STORAGE

Wayson's Stain should be stored at 15-25°C in its original container. Product stored under these conditions will be stable until the expiry date shown on the product label.

PRECAUTIONS

- For In Vitro Diagnostic Use only.
- For professional use only.
- Directions should be read and followed carefully.
- Do not use beyond the stated expiration dates.
- Microbial contamination may decrease the accuracy of the staining.
- Safety precautions should be taken in handling, processing and discarding all clinical specimens.
- Samples should be processed in the correct containment level conditions.
- Dispose of all material in accordance with local regulations.

TEST PROCEDURE

- Prepare a smear on a clean glass slide and allow to air dry.
- Heat fix and allow to cool.
- Flood the slide with Wayson's Stain, stand for 10-20 seconds.
- Rinse with distilled water and air dry.
- Examine using a microscope.

QUALITY CONTROL PROCEDURE

Internal quality control of the Wayson's Stain must be performed regularly on known reference material.

Recommended Quality Control:

Positive control - *Yersinia enterocolitica* NCTC® 12982/ATCC® 9610* (PLD80)

Negative control - *Escherichia coli* NCTC® 12241/ATCC® 25922* (PLD02)

INTERPRETATION OF RESULTS










Yersinia spp. stains dark blue bipolar.

LIMITATIONS OF THE PROCEDURE

- Only experienced personnel should carry out the interpretation of stained slides.
- Read prepared slides as soon as possible after staining. Failure to do so may affect the results.

REFERENCES

- Balzevic, D.J. and Edrer, G.M. (1975). Principles of Biochemical Tests in Diagnostic Microbiology. *John Wiley & sons*, New York, NY.
- Chapin, K. C., and T.-L. Lauderdale. 2003. Reagents, stains, and media: bacteriology. p. 354-383.
- Isenberg HD, Ed. Clinical microbiology procedures handbook, Vol I Washington, DC: *ASM Press*, 1992.
- Jorgensen et al. Manual of Clinical Microbiology. *American Society for Microbiology*, Washington, D.C. 1974.
- Murray, P. R., Baron, E. J., Jorgensen, J. H., Tenover, M. A. and Tenover, R. H. (ed.), Manual of clinical microbiology, 8th edition. *ASM Press*, Washington, DC. 2003
- Wacko, R. and Sherris, J.C. (1963). *American Journal of Clinical Pathology*. 39:429-432.

	= Use by
	= Lot number
	= Catalogue number
	= Manufacturer
	= Authorized Representative in the European Community
	= Contains sufficient for <n> tests
	= In vitro diagnostic medical device
	= Temperature limitation
	= Consult instructions for use




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HAZARDS IDENTIFICATION

Please refer to Safety Data sheets for full text for all hazard and precautionary statements.

 <p>DANGER</p>	<p>PL.7121 PL.7121/5</p>	<p>H226, H314, H341, H412</p> <p>P210, P273, P280, P301+P330+P331, P303+P361+P353, P310, P305+P351+P338, P501</p>
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