

## Product Information

### 06728 Hydrogen Sulfide Test Strips (Lead acetate test strips, H<sub>2</sub>S test strips)

These strips are used for detection of hydrogen sulfide production by microorganisms. Hydrogen sulfide can be produced in small amounts from sulfur containing amino acids like cysteine by a large number of bacteria in carbohydrate media. Hydrogen sulfide produces on contact with lead acetate a black precipitate, indicated by a visible black coloured reaction on the hydrogen sulfide paper strip. The lead acetate procedure is more sensitive than any other method for detecting hydrogen sulfide production; it is even possible to detect traces of hydrogen sulphide.

#### Composition:

(1 package contains 25 strips)

Sterile filter paper strips impregnated with lead acetate

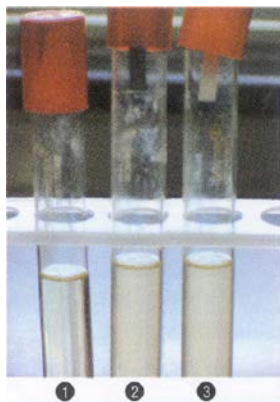
#### Directions:

Inoculate Peptone Water (Cat. No. 70179) with the test organism. Insert a lead acetate paper strip between the plug and inner wall of tube, above the inoculated medium and incubate at 35°C for 18-24 hours.

#### Quality control:

Cultural response after 18-24 hours at 35°C. A positive reaction appears as blackening of the lower part of the strip. A negative reaction shows no blackening.

Test Organisms (ATCC)	H <sub>2</sub> S production
<i>Escherichia coli</i> (25922)	-
<i>Salmonella serotype Enteritidis</i> (13076)	+
<i>Salmonella serotype Typhimurium</i> (14028)	+



1. Control
2. *Salmonella serotype Typhimurium*
3. *Escherichia coli*

## Product Information

### References:

1. R.N. Collins, M.D. Treger, J.B. Goldsby, J.R. III Boring, D.B. Coohon, R.N. Barr. Interstate outbreak of *Salmonella newbrunswick* infection traced to powdered milk., *JAMA*, 203, 838 (1968)
2. J.B. Weissman, R.M.A.D. Deen, M. Williams, N. Swanston, S. Ali, An island-wide epidemic of salmonellosis in Trinidad traced to contaminated powdered milk., *West Indian Med. J.*, 26, 135 (1977)
3. S.M. Finegold, W.J. Martin, *Bailey and Scott's Diagnostic Microbiology* 6<sup>th</sup> ed., The CV. Mosby Co., St. Louis (1982)
4. J.F. MacFaddin, *Media For Isolation-Cultivation-Identification-Maintenance of Medical Bacteria.*, Vol. 1, Williams and Wilkins, Baltimore (1985)
5. B. Rowe, N.T. Begg, D.N. Hutchinson, et al., *Salmonella* Ealing infections associated with consumption of infant dried milk., *Lancet*, 2, 900 (1987)

©2013 Sigma-Aldrich Co. LLC. All rights reserved. SIGMA-ALDRICH is a trademark of Sigma-Aldrich Co. LLC, registered in the US and other countries. Sigma brand products are sold through Sigma-Aldrich, Inc. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see product information on the Sigma-Aldrich website at [www.sigmaaldrich.com](http://www.sigmaaldrich.com) and/or on the reverse side of the invoice or packing slip.