

# Instructions for Use

## ACETAMIDE SLANT

<a href="#">Cat. no. L02</a>	Acetamide Slant, 16x100mm Tube, 5.5ml Slant	20 or 100 tubes/box
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## INTENDED USE

Hardy Diagnostics Acetamide Agar Slant is recommended for the differentiation of *Pseudomonas aeruginosa*.

## SUMMARY

Culture media containing acetamide as a carbon source have been used for isolation and identification of *P. aeruginosa*. This media has been described as a modified Simmons Citrate Agar using acetamide as the sole carbon source. A variety of modified simmons agar formulations have been used to survey the ability of various nonfermenting gram negative bacteria to deaminate acetamide. A few species were found to be capable. Acetamide deamination was most actively accomplished by *Delftia acidovorans*, *P. aeruginosa*, Group III (*Achromobacter xylosoxidans*), and *Alcaligenes odorans*. The alkalization that occurs with deamination is indicated by a pronounced blue reaction in the medium.

## FORMULA

Ingredients per liter of deionized water:\*

Acetamide	10.0gm
Sodium Chloride	5.0gm
Monoammonium Phosphate	1.0gm
Dipotassium Phosphate	1.0gm
Magnesium Sulfate	0.2gm
Bromothymol Blue	0.08gm
Agar	15.0gm

Final pH 6.8 +/- 0.2 at 25°C.

\* Adjusted and/or supplemented as required to meet performance criteria.

## STORAGE AND SHELF LIFE

Storage: Upon receipt store at 2-30°C. away from direct light. Media should not be used if there are any signs of deterioration (shrinking, cracking, or discoloration), hemolysis, contamination, or if the expiration date has passed. Product is light and temperature sensitive; protect from light, excessive heat and freezing.

The expiration date on the product label applies to the product in its intact packaging when stored as directed. The product may be used and tested up to the expiration date on the product label and incubated for the recommended incubation times as stated below.

Refer to the document "[Storage](#)" for more information.

## PRECAUTIONS

This product may contain components of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not guarantee the absence of transmissible pathogenic agents. Therefore, it is recommended that these products be treated as potentially infectious, and handle observing the usual Universal Precautions for blood. Do not ingest, inhale, or allow to come into contact with skin.

This product is for *in vitro* diagnostic use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions." Refer to the document "[Guidelines for Isolation Precautions](#)" from the Centers for Disease Control and Prevention.

For additional information regarding specific precautions for the prevention of the transmission of all infectious agents from laboratory instruments and materials, and for recommendations for the management of exposure to infectious disease, refer to CLSI document M29: *Protection of Laboratory Workers from Occupationally Acquired Infections*.

Sterilize all biohazard waste before disposal.

Refer to the document "[Precautions When Using Media](#)" for more information.

## PROCEDURE

**Specimen Collection:** Consult listed references for information on specimen collection.<sup>(1-4)</sup> Infectious material should be submitted directly to the laboratory without delay and protected from excessive heat and cold. If there is to be a delay in processing, the specimen should be inoculated onto an appropriate transport media and refrigerated until inoculation.

**Method of Use:** Performance of the Acetamide Slant is dependant upon proper inoculation of the test medium from a pure culture. To prevent delay in the initiation of growth and medium reaction, the inoculum should not be taken from a liquid or broth suspension of the organism. Allow medium to warm to room temperature. Inoculum should be taken from the center of a well isolated colony of a fresh 18-24 hour culture. Inoculate the Acetamide Slant by drawing the loop straight up the slant, or streaking the surface in a serpentine pattern. Place cap loosely on the tube to ensure adequate aeration. The test medium should be incubated at 35°C. and checked daily for four days for signs of growth and color change.

## INTERPRETATION OF RESULTS

A positive reaction is indicated by growth of the organism and a color change of the medium from green to blue.

## LIMITATIONS

It is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on colonies from pure culture for complete identification of bacteria and/or fungi.

This product is not intended for primary isolation of patient specimens. The reactions of this medium are not sufficient for speciation.

Additional biochemical and/or serological tests are necessary for definitive identification.

Refer to the document "[Limitations of Procedures and Warranty](#)" for more information.

## MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as loops, other culture media, swabs, applicator sticks, incinerators, and incubators, etc., as well as serological and biochemical reagents, are not provided.

## QUALITY CONTROL

Hardy Diagnostics tests each lot of commercially manufactured media using appropriate quality control microorganisms and quality specifications as outlined on the Certificate of Analysis (CofA) and the CLSI document M22-A3 *Quality Assurance for Commercially Prepared Microbiological Culture Media*. The following microorganisms are routinely used for testing at Hardy Diagnostics:

Test Organisms	Inoculation Method*	Incubation			Results
		Time	Temperature	Atmosphere	
<i>Pseudomonas aeruginosa</i> ATCC® 27853	A	24-48hr	35°C	Aerobic	Growth; color change from green to blue
<i>Escherichia coli</i> ATCC® 25922	B	24hr	35°C	Aerobic	Inhibited

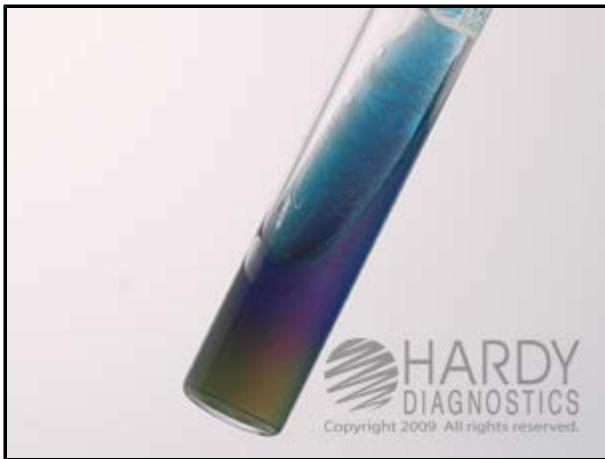
\* Refer to the document "[Inoculation Procedures for Media QC](#)" for more information.

## USER QUALITY CONTROL

End users of commercially prepared culture media should perform QC testing in accordance with applicable government regulatory agencies, and in compliance with accreditation requirements. Hardy Diagnostics recommends end users check for signs of contamination and deterioration and, if dictated by laboratory quality control procedures or regulation, perform quality control testing to demonstrate growth or a positive reaction and to demonstrate inhibition or a negative reaction, if applicable. Hardy Diagnostics quality control testing is documented on the certificate of analysis (CofA) available from Hardy Diagnostics [Certificate of Analysis](#) website. Also refer to the document "[Finished Product Quality Control Procedures](#)," and the CLSI document M22-A3 *Quality Assurance for Commercially Prepared Microbiological Culture Media* for more information on the appropriate QC procedures. See the references below.

## PHYSICAL APPEARANCE

Acetamide Slant media should appear clear, and green in color.



*Pseudomonas aeruginosa* (ATCC® 27853) colonies growing on an Acetamide Slant (Cat. no. L02). Incubated aerobically for 24 hours at 35°C.



*Escherichia coli* (ATCC® 25922) inhibited on an Acetamide Slant (Cat. no. L02). Incubated aerobically for 24 hours at 35°C.

## REFERENCES

1. Jorgensen., et al. *Manual of Clinical Microbiology*, American Society for Microbiology, Washington, D.C.
2. Tille, P., et al. *Bailey and Scott's Diagnostic Microbiology*, C.V. Mosby Company, St. Louis, MO.
3. Anderson, N.L., et al. *Cumitech 3B; Quality Systems in the Clinical Microbiology Laboratory*, Coordinating ed., A.S. Weissfeld. American Society for Microbiology, Washington, D.C.
4. Isenberg, H.D. *Clinical Microbiology Procedures Handbook*, Vol. I, II & III. American Society for Microbiology, Washington, D.C.

ATCC is a registered trademark of the American Type Culture Collection.

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The Hardy Diagnostics manufacturing facility and quality management system is certified to ISO 13485.

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