

Instructions for Use

BLOOD AGAR WITH AMPICILLIN

Cat. no. A12	Blood Agar with Ampicillin, 15x100mm Plate, 17ml	10 plates/bag
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INTENDED USE

Hardy Diagnostics Blood Agar with Ampicillin is recommended for the cultivation and selective isolation of *Aeromonas* spp.

SUMMARY

Aeromonas hydrophila, an aquatic pathogen, has been associated with numerous clinical situations involving immunocompromised individuals who have presented with wound infections, septicemia, meningitis, osteomyelitis, pelvic abscesses, respiratory and ocular infections, and gastroenteritis.⁽⁶⁾ The organism is an oxidase-positive, gram-negative bacillus closely related to *Vibrio cholerae*.

Aeromonas spp. grow readily on most laboratory media over a temperature range of 4 to 42°C., with an optimum temperature of approximately 30°C.^(7,8) A large scale study conducted by Kelly et al. revealed Blood Agar with Ampicillin to be the single best medium for the isolation of aeromonads from stool specimens.⁽⁹⁾

Hardy Diagnostics Blood Agar with Ampicillin is composed of Tryptic Soy Agar with 5% sheep blood. Ampicillin is incorporated into the medium to inhibit most Enterobacterales and some gram-positive bacteria.

FORMULA

Ingredients per liter of deionized water:*

Pancreatic Digest of Casein	15.0gm
Peptic Digest of Soybean Meal	5.0gm
Sodium Chloride	5.0gm
Ampicillin	10.0mg
Sheep Blood	50.0ml
Agar	15.4gm

Final pH 7.3 +/- 0.2 at 25°C.

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

STORAGE AND SHELF LIFE

Storage: Upon receipt store at 2-8°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, moisture, 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: 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. Consult listed references for information on specimen collection.⁽¹⁻⁵⁾

Prepared media should be inoculated, incubated, and results recorded according to accepted procedures described in the listed reference texts.⁽¹⁻⁵⁾

INTERPRETATION OF RESULTS

Aeromonas should appear as smooth, convex, grayish colonies 1-3 mm in diameter; 24% may be non-hemolytic.⁽¹⁰⁾

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.

Blood Agar with Ampicillin is a selective growth medium and may inhibit the growth of certain species of the organism for which it is designed to isolate.

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>Aeromonas hydrophila</i> ATCC® 7966	A	18-24hr	35°C	Aerobic	Growth
<i>Escherichia coli</i> ATCC® 25922	B	18-24hr	35°C	Aerobic	Partial to complete inhibition

* 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

Blood Agar with Ampicillin should appear opaque, and cherry red in color.



Aeromonas hydrophila (ATCC® 7966) colonies growing on Blood Agar with Ampicillin (Cat. no. A12). Incubated aerobically for 24 hours at 35°C.

REFERENCES

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9. Kelly, M.T., et al. 1988. *J. Clin. Microbiol.*; 26:1738-1740.
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