Reference: 06-126LYO1 **Scharlau Microbiology - Technical Data**

Product: **Ampicillin Selective Supplement**

Specification

Sterile selective supplement used for *Aeromonas spp.* isolation from water, food and clinical samples.

Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial with: 3 ± 0.1 g	23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	49 months	2-25 ºC

Composition

Compositon (g/vial)

Ampicillin sodium salt..... 0.0025

Reconstitute the original freeze-dried vial by adding:
Sterile Distilled Water.....6 ml

NOTE : Each vial is sufficient to supplement 500ml of medium Blood Agar Base (Columbia).

Description /Technique

Description:

Ampicillin permits to isolate *Aeromonas spp*. that are getting increasing attention as a human patogen.
The macroscopic aspect of the colonies of *Aeromonas* could be depending on the formulation of the medium base as follow:
- Dark green-opaque colonies with a dark center in Ryan's one;
- Brilliant pink translucent colonies into media formulated with crystal violet and neutral red;
- Yellow colonies due to the dextrin fermentation in selective medium following Havelaar.

Technique:

Collect and process sample volumes according to the specifications of directives, regulations, standards or specific protocols established depending on the objectives.
Reconstitute the vial with the sterile diluent (6 ml) in aseptic conditions and add it to 500 ml of Blood Agar Base or Cpolumbia Blood Agar Base cooled to 50ºC. Do not overheat once suplemented.
Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates either by streaking or by spiral method.
Incubate the plates in aerobic atmosphere at 35±2ºC for 24-48h.
Incubation times longer than those mentioned above or different incubation temperatures may be requied depending on the sample or the specifications.
After incubation, count all the colonies that have appeared onto the surface of the agar.
Presumptive isolation of *Aeromonas* spp. must be confirmed by further microbiological and biochemical tests.

Quality control

Physical/Chemical control

Color : White-Gray

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Distribute the complete medium, cooled at 50ºC, in plates

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 35 ± 2 ºC, reading at 24-48 hours.

Microorganism	Growth
Aeromonas hydrophila ATCC® 7966, WDCM 00063	Good
Escherichia coli ATCC® 25922, WDCM 00013	Partially Inhibited (≤ 30%)
Stph. aureus ATCC® 25923, WDCM 00034	Inhibited

Sterility control

Add 5 ml of the sample to:
100 ml TSB and 100 ml Thioglycollate.
Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.

Bibliography

· ATLAS, RM & LC PARKS (1993) Handbook of Microbiological Media. CRC Press. London.

· CASMAN, E. (1947) A non-infusion blood agar base for neiseriae, pneumococci and streptococci. Am. J. Clin. Path. 17:281-289.

· ELLNER, PD, CJ STOESSEL, E. DRAKEFORD, & F. VASI (1966) A new culture medium for medical bacteriology. Amer.J.Clin.Path 45:502-504.

· ISENBERG H.D. (1992) Clinical Microbiology Procedures Handbook. ASM Washington. DC. USA.

. ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.