

ACID BUFFER HCl-KCl (pH 2.2)

DESCRIPTION

Acid Buffer HCl-KCl (pH 2.2) is recommended for use as a pretreatment medium to increase the yield of Legionella from samples.

PRINCIPLE

The acid buffer HCl-KCl (pH 2.2) is used for the acid pre-treatment of samples, particularly contaminated by mixed flora, which could limit the isolation of Legionella from the samples under examination. To limit the contaminating bacterial flora in water samples and environmental samples, the tolerability of Legionella to the acid environment is exploited.

COMPOSITION

SOLUTION OF HYDROCHLORIC ACID HCL 0,2 mol/L	3.9 ml
SOLUTION OF POTASSIUM CHLORIDE KCL 0,2 mol/L	25.0 ml
SOLUTION OF POTASSIUM HYDROXIDE KOH 1 mol/l	0.75 - 1 ml

Final pH 2,2 ± 0,2 at 25°C

WARNING AND PRECAUTIONS

Observe the precautions normally taken when handling laboratory reagents.

Prepared Medium: The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

Safety Data Sheet is available on request for professional users.

All waste must be disposed of according to local directives.

STORAGE AND STABILITY

Prepared medium: 10-30°C

The product is stable until the expiration date indicated on the label under the recommended storage conditions.

PROCEDURE

- Add approximately 0.5 mL of the specimen to 4.5 mL of Acid Buffer HCl-KCl (pH 2.2);
- Vortex the tube to mix thoroughly;
- Allow the mixture to stand at room temperature for 5 minutes;
- Inoculate both selective and nonselective agar media with 0.1 mL of the mixture and streak for isolation;
- Incubate the plates and observe for growth of Legionella organisms.

QUALITY CONTROL

Prepared medium: Colorless solution.

REFERENCES

- ISO 11731: 1998 Water quality — Detection and enumeration of Legionella.
- CONFERENZA PERMANENTE STATO REGIONI del 04.04.2000 GU 103 linee guida per la prevenzione e controllo della legionellosi (Metodo all. 2 all. 3)
- ISO 11731-2: 2004 Qualità dell'acqua - Ricerca e conta di Legionella – Parte2: Metodo per filtrazione diretta su membrana per acque a basso contenuto batterico
- ARPAT_2005 Guida pratica per l'esecuzione di prove microbiologiche su alimenti e acque potabili e minerali
- UNI EN ISO 11731-2: 2008 Qualità dell'acqua - Ricerca e conta di Legionella – Parte2: Metodo per filtrazione diretta su membrana per acque a basso contenuto batterico
- ISO 11731 :2017 Water Quality – Enumeration of Legionella

PRESENTATION

Packaging

REF.

Prepared medium:

ACID BUFFER HCl-KCl (pH 2.2)

1 x 1000 mL Bottle

85000

SYMBOLS



Read the instructions



Biological hazard



CE Mark (product complies with the requirements of Regulation (EU) 746/2017)



Temperature limitation



Use by



For in vitro diagnostic use



Manufacturer