



Guangdong Huankai Microbial Sci. & Tech.Co.,Ltd.

广东环凯微生物科技有限公司

Add: No.788,Shenzhen Road,Guangzhou Science City,
Guangzhou,Guangdong Province,China

Tel: +86-20-32078333-8654 Website: www.hkmbio.com

E-mail: hugochiang@163.com

CRM014 Chromogenic Listeria Agar

Usages:

Used for isolation and preliminary identification of *Listeria monocytogenes* and other *Listeria monocytogenes*.

Principle:

peptone,tryptone, yeast extract powder provide nitrogen source and trace elements; Glucose provides a carbon source; Sodium pyruvate, magnesium glycerophosphate, magnesium sulfate, and lithium chloride promote bacterial cell growth and regulate enzyme activity; Sodium chloride maintains a balanced osmotic pressure; Disodium hydrogen phosphate as a buffer; Agar is a coagulant for the culture medium; 5-bromo-4-chloro-3-indole- β - D-glucoside is a chromogenic substrate, which is associated with *Listeria monocytogenes* β - Glucosidase undergoes a specific hydrolysis reaction, releasing chromogenic groups, causing *Listeria* bacteria to form green colonies; The matching reagents contain lecithin and antibiotics, which can inhibit the growth of miscellaneous bacteria, allowing *Listeria monocytogenes* with phospholipase to form a milky white lipid precipitation ring around green colonies.

Formulation: (per liter)

Peptone 17.5g

Tryptone 6.0g

Yeast extract powder 10.0g

Sodium pyruvate 2.0g

Glucose 2.0g

Magnesium glycerophosphate 1.5g

Agar 14.0g

Magnesium sulfate 0.5g

Sodium chloride 5.0g

Lithium chloride 10.0g

Disodium hydrogen phosphate 2.5g

5-bromo-4-chloro-3-indole- β - D-glucoside 0.1g

Final pH 7.0 ± 0.2

How to use:

Weigh 71.1g of powder, add 950 mL of purified water, stir and heat until completely dissolved (can be expanded or reduced proportionally), sterilize with high-pressure steam at $121\text{ }^{\circ}\text{C}$ for 15 minutes, and cool to about $50\text{ }^{\circ}\text{C}$ for later use. Add 10mL of sterile purified water to each vial of additive reagent (SR0750), shake to dissolve (vortex oscillator can be used), and then add to 190mL of the basic culture medium that has been cooled to around $50\text{ }^{\circ}\text{C}$. Mix well and pour into



Guangdong Huankai Microbial Sci. & Tech.Co.,Ltd.

广东环凯微生物科技有限公司

Add: No.788,Shenzhou Road,Guangzhou Science City,
Guangzhou,Guangdong Province,China

Tel: +86-20-32078333-8654 Website: www.hkmbio.com

E-mail: hugochiang@163.com

sterile petri dishes. Wait for coagulation and prepare for later use.



Listeria monocytogenes :Blue-green colonies with cloudy circles

Other Listeria : Blue-green colonies without cloudy circles

Storage: Keep container tightly closed, store in a cool, dry place, away from bright light.

Specifications: 71.1g (Configurable 1L of Medium .)