

Blood Agar Base No. 2

For the isolation and cultivation of various fastidious microorganisms, especially of pathogenic species, and for establishing their forms of haemolysis



In Vitro Diagnostic Medical Device –

For professional use only



Version 17-10-2008

Merck KGaA, 64271 Darmstadt

*See also General Instruction for Use
„How to use Dehydrated Culture Media“*

*For MSDS, warnings and precautions see our website:
www.merck-chemicals.com*

Principle

Microbiological method.

Typical Composition (g/litre)

Nutrient substrate (yeast extract, peptone, liver-hydrolysate) 23.0; sodium chloride 5.0; agar-agar 12.0.

Preparation

Suspend 40 g in 1 litre of demin. water and autoclave (15 min at 121 °C). Cool to 45-50 °C, add 5-8 % of sterile defibrinated blood without bubbles (ensure adequate aeration of the blood). Mix gently and pour into plates.

pH: 7.4 ± 0.2 at 25 °C.

Before adding blood the prepared medium is clear and yellowish-brown, afterwards blood-coloured and non-hemolytic.

Storage

Usable up to the expiry date when stored dry and tightly closed at +15 to +25 °C. Protect from light.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 to +25 °C.

Specimen

e.g. Throat swabs, sputum, genital swabs. Clinical specimen collection, handling and processing, see general instructions of use.

Experimental Procedure

Inoculate the plates.

Incubation: under optimal conditions usually 24 hours at 35 °C aerobically (Cl. perfringens anaerobically).

Investigate hemolytic reactions.

Literature

WATERWORTH, P.M.: Brit. J. Exp. Pathol., 36(2); 186-194 (1955).

Ordering Information

Product	Ordering No.	Pack size
Blood Agar Base No. 2	1.10328.0500	500 g
Blood Agar Base No. 2	1.10328.5000	5 kg
Merckoplate® Blood Agar	1.13414.0001	20 plates
Merckoplate® Blood Agar	1.13421.0001	480 plates
Blood		

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Quality control

Test strains	Inoculum cfu/ml	Recovery rate (%)	Hemolysis	Bacitracin test
<i>Staphylococcus aureus</i> ATCC 25923	10^3 - 10^5	≥ 70	β	-
<i>Streptococcus pyogenes</i> ATCC 19615	10^3 - 10^5	≥ 70	β	+
<i>Streptococcus pneumoniae</i> ATCC 6305	10^3 - 10^5	≥ 70	α	-
<i>Streptococcus agalactiae</i> ATCC 13813	10^3 - 10^5	≥ 70	-	-
<i>Listeria monocytogenes</i> ATCC 19118	10^3 - 10^5	≥ 70	-	-
<i>Bacillus cereus</i> ATCC 11778	10^3 - 10^5	≥ 70	β	-
<i>Clostridium perfringens</i> ATCC 13124	10^3 - 10^5	≥ 70	β	-



Streptococcus pyogenes ATCC 19615



Bacillus cereus ATCC 11778