

## Technical Data Sheet

# CE Blood Agar Base No. 2

Ordering number: 1.10328.0500

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

IVD in vitro diagnosticum - For professional use only

### Mode of Action

Liver hydrolysate, peptone and yeast extract provide nitrogen, carbon, amino acids and vitamins. The osmotic equilibrium is maintained by sodium chloride.

Supplementation with blood provides additional growth factors for fastidious microorganisms and is the basis for determining hemolytic reactions. Hemolytic patterns may vary with the source of animal blood or type of base medium used.

In a study of viability of streptococci, Snavely and Brahier found that sheep blood gave the clearest and most reliable colony and hemolysis characteristics at both 24 and 48 hours.

### Typical Composition

Nutrient substrate (yeast extract, peptone, liver-hydrolysate)	23 g/l
NaCl	5 g/l
Agar-Agar	12 g/l

### Preparation

Suspend 40 g in 1 l of demineralized water. 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.

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

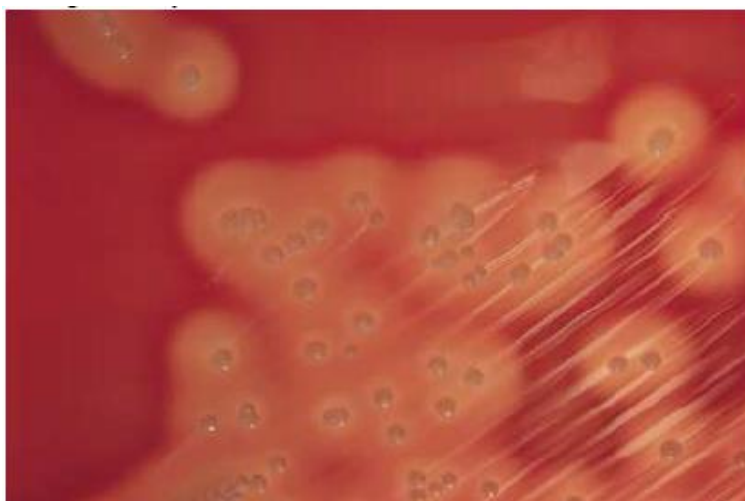
The pH value at 25 °C is in the range of 7.2-7.6.

### Experimental Procedure and Evaluation

Inoculate the plates.

Incubation: under optimal conditions usually 24 h at 35 °C aerobically (*Clostridium perfringens* anaerobically).

Investigate hemolytic reactions.



### 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.

### Quality Control

Control Strains	ATCC #	Incubation	Expected Results
<i>Staphylococcus aureus</i>	25923	24 h at 35 °C	Recovery on test medium ≥ 70 %
<i>Streptococcus pyogenes</i>	19615	24 h at 35 °C	Recovery on test medium ≥ 70 %, β-hemolysis, bacitracin test positive
<i>Streptococcus pneumoniae</i>	6305	24 h at 35 °C	Recovery on test medium ≥ 70 %, α-hemolysis
<i>Streptococcus agalactiae</i>	13813	24 h at 35 °C	Recovery on test medium ≥ 70 %, no hemolysis
<i>Listeria monocytogens</i>	19118	24 h at 35 °C	Recovery on test medium ≥ 70 %
<i>Bacillus cereus</i>	11778	24 h at 35 °C	Recovery on test medium ≥ 70 %, β-hemolysis
<i>Clostridium perfringens</i>	13124	24 h at 35 °C*	Recovery on test medium ≥ 70 %, β-hemolysis

\* anaerobic with Anaerocult® A

Please refer to the actual batch related Certificate of Analysis.



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

Merck Millipore and the M logo are registered trademarks of Merck KGaA, Darmstadt, Germany. ATCC is a registered trademark of ATCC, Manassas, VA, USA. Lit. No. TN1481EN00

## Literature

Waterworth, P. M. (1955): The stimulation and inhibition of the growth of *Haemophilus influenzae* on media containing blood. British Journal of Experimental Pathology. **36**: 186-194.

Snaveley and Brahier. 1960. Am. J. Clin. Pathol. 33:511.

## Ordering Information

Product	Cat. No.	Pack size
Blood Agar Base No. 2	1.10328.0500	500 g

Merck KGaA, 64271 Darmstadt, Germany  
Fax: +49 (0) 61 51 / 72-60 80  
mibio@merckgroup.com  
[www.merckmillipore.com/biomonitoring](http://www.merckmillipore.com/biomonitoring)

Find contact information for your country at:  
[www.merckmillipore.com/offices](http://www.merckmillipore.com/offices)  
For Technical Service, please visit:  
[www.merckmillipore.com/techservice](http://www.merckmillipore.com/techservice)



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

Merck Millipore and the M logo are registered trademarks of Merck KGaA, Darmstadt, Germany. ATCC is a registered trademark of ATCC, Manassas, VA, USA. Lit. No. TN1481EN00