

## AZIDE VIOLET BLOOD AGAR BASE

Selective basal medium for streptococci isolation from clinical samples and foodstuffs.

TYPICAL FORMULA	(g/l)
Tryptospecial	14.0
Beef Extract	6.0
Sodium Chloride	5.0
Sodium Azide	0.2
Crystal Violet	0.002
Agar	15.0

Final pH = 7.2 ± 0.2 at 25 °C.

### DIRECTIONS

Suspend 40.2 g of powder in 1 liter of distilled or deionized water. Heat to boiling and shake until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50 °C and aseptically add 5% of sterile defibrinated horse or sheep blood. Mix well. Distribute in petri dishes.

### DESCRIPTION

AZIDE VIOLET BLOOD AGAR BASE is a selective medium for the isolation of streptococci from clinical samples and foodstuffs. Gram-negative organisms and staphylococci are inhibited. The addition of blood makes it suitable to bring to evidence hemolytic properties of streptococci.

### TECHNIQUE

Plate material to examine on the surface of the solidified medium, or include it into the agar mass. Hemolysis in Azide Blood Agar plates appears as follows:  
α-haemolysis: green-brown halo, sometimes surrounded by a light zone; at an analysis with a microscope the red cells appear discolored but intact.  
β-haemolysis: transparent red halo.

### QUALITY CONTROL

#### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: tan.

#### Prepared medium

Appearance: opaque.

Color: cherry red.

Incubation conditions: 36 ± 1 °C for 24 hours.

Microorganism	ATCC	Growth	Hemolysis
<i>Escherichia coli</i>	25922	none	
<i>Streptococcus faecalis</i>	19433	good	alpha-gamma
<i>Staphylococcus aureus</i>	25923	none	
<i>Streptococcus pneumoniae</i>	6303	good	alpha
<i>Streptococcus pyogenes</i>	19615	good	beta

### PERFORMANCE AND LIMITATIONS

Diagnosis of streptococci is confirmed with standard microscopic, biochemical and serological tests.

### PRECAUTIONS

Azide Violet Blood Agar Base contains sodium azide. This substance is harmful by inhalation and if swallowed, irritating to eyes, respiratory system and skin. Consult safety data sheet for further details. Sodium azide reacts with many metals, especially copper, to produce explosive metal azides.



**LIOFILCHEM s.r.l.**

Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY

Phone +390858930745 Fax +390858930330

Website: [www.liofilchem.net](http://www.liofilchem.net) E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)




### STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.  
Store prepared plates at 2-8 °C.





### REFERENCES

1. Mossel, D.A.A, Diepen, H.M.S., De Bruin, A.S. (1967). J. Appl. Bact. **20**:265-272.
2. Anthony, B.F., and D.M. Okada. (1977). Sec. III: 154-170. In Manual of Clinical Microbiology, 4th ed. Lennette E.H., A. Balows, W.J. Hausler, H.J. Shadomy.

### PRESENTATION

Product	REF	
AZIDE VIOLET BLOOD AGAR BASE (12.4 l)	610155	500 g
AZIDE VIOLET BLOOD AGAR BASE (2.4 l)	620155	100 g
SHEEP BLOOD DEFIBRINATED	83296	50 ml

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	<b>IVD</b> <i>In Vitro</i> Diagnostic Medical Device
<b>REF</b> Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



**LIOFILCHEM s.r.l.**

Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY

Phone +390858930745 Fax +390858930330

Website: [www.liofilchem.net](http://www.liofilchem.net) E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)

