

# Schaedler Agar with Vitamin K1 and 5% Sheep Blood Agar | Ready-to-use Media

Effective Date: 15/11/2024

REF FP90S2001

a product by Biomed MDX



## Intended Use:

For the isolation and cultivation of fastidious anaerobic bacteria.

## Principle of the Procedure:

Schaedler Agar with Vitamin K1 and 5% Sheep Blood is a rich, non-selective medium for cultivating diverse aerobic and anaerobic bacteria, especially fastidious ones. Vitamin K1 enhances the growth of specific anaerobes, while 5% sheep blood provides extra nutrients and allows for hemolysis observation, aiding in species differentiation. It's a valuable tool for isolating a broad range of microorganisms from various samples.

## Product Summary:

Developed in 1965 for fastidious anaerobes, Schaedler Agar was later modified to improve growth, notably with vitamin K1 for specific bacteria. The addition of 5% sheep blood created the current formulation, enriching the medium and allowing hemolysis observation.

## Formulation\* (PER LITER):

Pancreatic Digest of Casein	8.2g	Sodium Chloride	1.7g
Peptic Digest of Animal Tissue	2.5g	Dipotassium Phosphate	0.8g
Papaic Digest of Soybean Meal	1.0g	L-Cystine	0.4g
Dextrose	5.8g	Hemin	0.01g
Yeast Extract	5.0g	Tris (hydroxymethyl) aminomethane	3.0g
Sheep Blood	50mL	Agar	13.5g
Vitamin K1	1mL		

pH 7.6 +/- 0.2

\*Adjust and/or supplemental as required to meet performance criteria

## Procedure

### Materials Provided

90mm Schaedler Agar with Vitamin K1 and 5% Sheep Blood Agar.

### Materials Required But Not Provided

Ancillary culture media, reagents, and laboratory equipment as required.

### Test Procedure

1. Inoculate and streak the specimen as soon as possible after it is received in the laboratory with an aseptic technique.
2. Incubate at  $35 \pm 2^\circ\text{C}$  for 48 hours.
3. Observe the result according to user requirements.
4. Dispose of all used reagents and contaminated materials as infectious waste. Laboratories must handle and dispose of all waste safely according to regulations.

### Results

Examine for colonies exhibiting typical microscopic and colonial morphology. Appropriate biochemical or immunological tests may be required for final identification

### Quality Control

Inoculate representative samples with the following strains. Incubate the inoculated plates at  $35 \pm 2^\circ\text{C}$  for 48 hours to allow colonies to develop on the medium.

Strains	ATCC®	Growth Results
<i>Bacteroides fragilis</i>	25285	Growth
<i>Clostridium perfringens</i>	13124	Growth, beta hemolysis
Uninoculated plate	-	No growth

### Transportation:

Temperature fluctuations may occur during transportation. However, these fluctuations do not affect the performance, quality, or safety of the media.

### Storage and Shelf Life:

Upon receipt, store plates at 2 to 8°C in their original sleeve wrapping until just before use. Avoid freezing and overheating. The plates may be inoculated up to the expiration date (see package label) and incubated for the recommended incubation times.

### Warning and Precautions:

For in vitro diagnostic use. For Professional Use Only. Do Not Reuse.  
Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration.













### Limitations of the Procedure

This medium is for laboratory use only and is not intended for the diagnosis of disease or other conditions. Identifications are presumptive and colonies should be identified using appropriate methods

## Reference

1. Murray P. R. (1978). Growth of clinical isolates of anaerobic bacteria on agar media: effects of media composition, storage conditions, and reduction under anaerobic conditions. *Journal of clinical microbiology*, 8(6), 708–714.

**Packaging Symbol**

Symbol	Definition
	Catalogue number
	In Vitro Diagnostic Medical Device
	Batch code
	Date of manufacture
	Temperature limit
	Use-by date
	Keep away from sunlight
	Do not re-use
	Fragile, handle with care
	Consult instructions for use or consult electronic instructions for use
	Do not use if packaging damaged and consult instructions for use
	Manufacturer

**Further Information:**

For further information please contact your Biomed MDX representative.

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