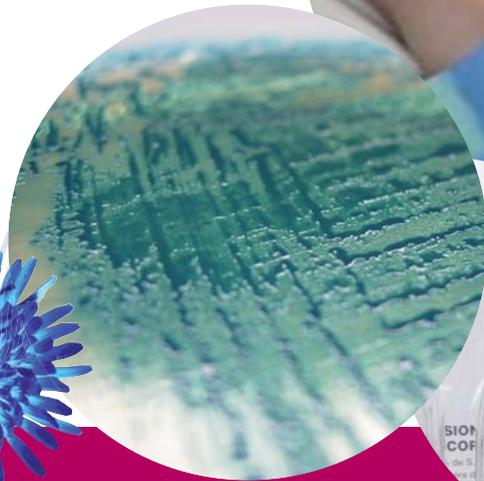




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Micro & Molecular Biology



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Discovery

Hemocultures

Hemocultures

types, formula, applications & uses

Hemocultures are control systems for microbial contamination in the blood, generally used in hospitals, clinics, etc. They basically consist of neutral glass flasks containing the culture medium, SPS, vacuum and a modified atmosphere.

There are different types of hemocultures depending on the composition of the media they contain. The use of one or another type of medium depends on the kind of analysis to be performed. Following product classification according to target audience and pack size, hemocultures are divided as follows:



	Cat. No.	Product Name	Pack size
Hemocultures for aerobic microorganisms	3002	Brain Heart Infusion Broth (adult and pediatric)	12 x 100 ml flasks
	3004		10 x 50 ml flasks
	3005		8 x 20 ml flasks
	3000	Trypticasein Soy Broth (adult)	12 x 100 ml flasks
	3001		10 x 50 ml flasks
Hemocultures for anaerobic microorganisms	3104	Fluid Thioglycollate Broth (adult)	12 x 100 ml flasks
	3105		10 x 50 ml flasks
	3106	Schaedler Broth (adult and pediatric)	12 x 100 ml flasks
	3107		10 x 50 ml flasks
	3006		8 x 20 ml flasks
	3108	Schaedler Broth reduced with K3 Vitamin (adult)	12 x 100 ml flasks
	3109		10 x 50 ml flasks

	Pack size	Product Use
Pediatric Hemocultures	20 ml flasks (Schaedler or Thioglycollate Broth)	For the inoculation of 2 ml of blood
Adult Hemocultures	50 ml flasks	For the inoculation of 5 ml of blood
	100 ml flasks	For the inoculation of 10 ml of blood

Formula in grams per liter

Brain Heart Infusion Broth	Dehydrated Brain Heart Infusion	35 g
	S.P.S (Sodium Polyanethol Sulphonate)	0.3 g
Fluid Thioglycollate Broth	Dehydrated Thioglycollate w/o resazurine	29.2 g
	S.P.S	0.3 g
Schaedler Broth	Dehydrated Schaedler Broth	28.4 g
	S.P.S.	0.3 g

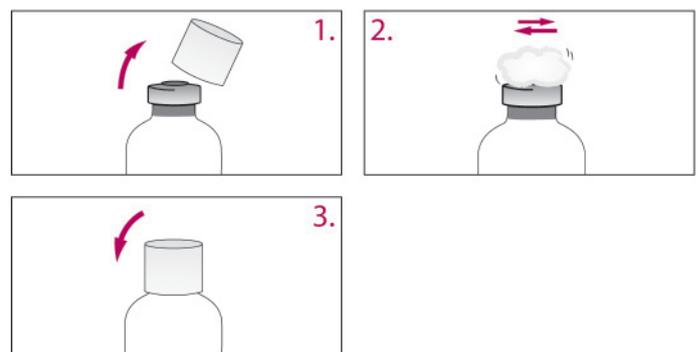
Schaedler Broth reduced with K3 Vitamin	Dehydrated Schaedler Broth	28.4 g
	S.P.S	0.3 g
	Vitamin K3	0.01 g
Trypticasein Soy Broth	Dehydrated Trypticasein Soy Broth Medium	28 g
	S.P.S	0.3 g

Instructions for use

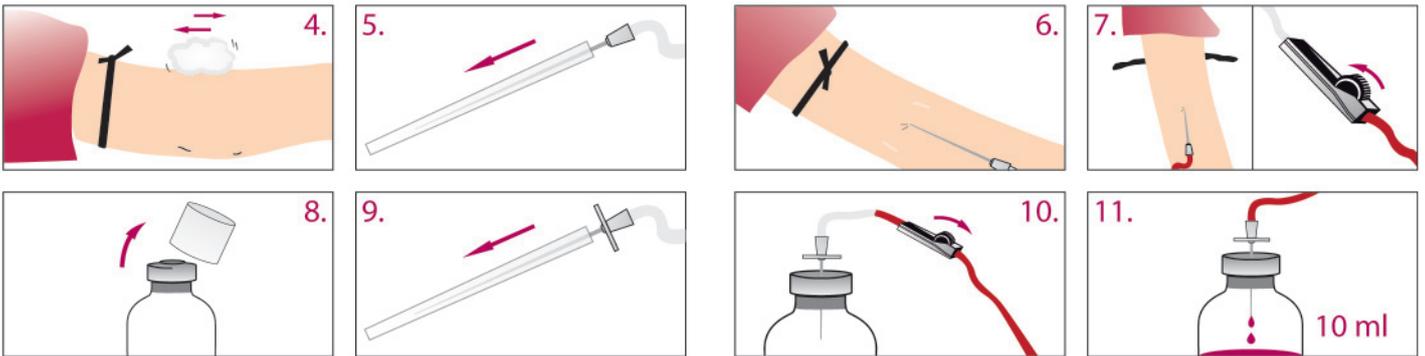
For sample taking, it is necessary to pierce the patient's vein with an intravenous needle (cap with cotton) connected by a transparent tube to another needle (without cotton top) which is introduced in the vial by puncturing the rubber seal for the flow of blood into the hemoculture.

To adjust or stop the flow of blood, rotate the wheel and displace it to the other end of support. The hose is thus compressed.

- 1.- Remove the bottle cap.
- 2.- Wipe the rubber seal with a cotton swab soaked in alcohol.
- 3.- Replace the cap and screw the bottle shut.



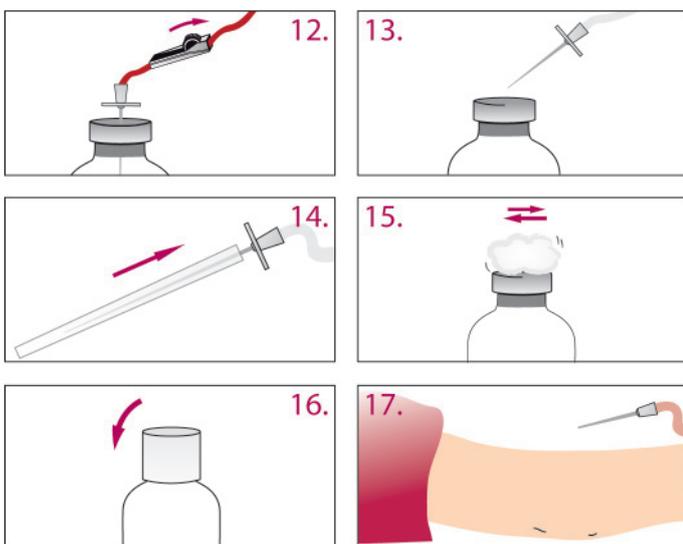
- 4.- Prepare patient's arm. Apply tourniquet. Disinfect skin with alcohol. Do not touch disinfected area so as to prevent recontamination.
- 5.- Remove the cap from the intravenous needle.
- 6.- Proceed with vein piercing.
- 7.- Remove the tourniquet and let the blood pass through the transparent tube, stopping flow by adjusting the wheel, just above the second needle.
- 8.- Remove the bottle cap again.
- 9.- Immediately remove the cap of the second needle.
- 10.- Push this second needle through the rubber seal and release the wheel.
- 11.- Allow 10 ml of blood at the most to drain [see instructions for each medium].



For the next step please follow instructions depending on the purpose of the analysis:

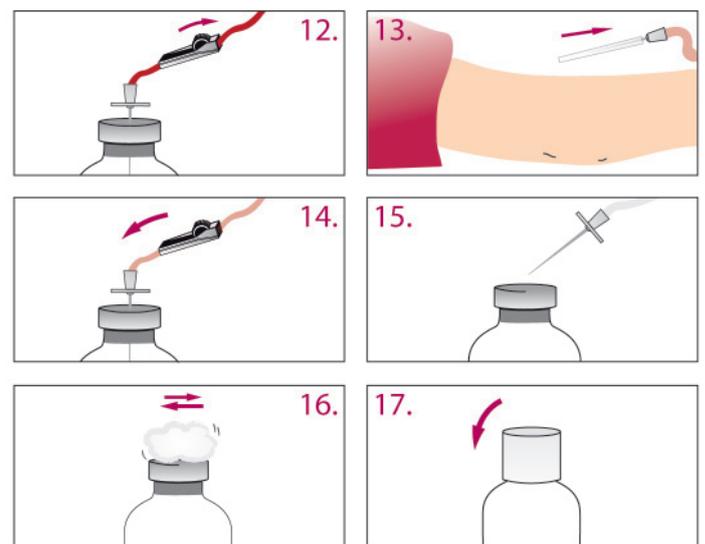
A. Detection of general anaerobic or facultative anaerobic germs by scientific methods

- 12.- Block the wheel to stop blood flow.
- 13.- Remove the needle from the rubber seal.
- 14.- Replace needle cap.
- 15.- Rub the rubber seal with a cotton swab soaked in alcohol.
- 16.- Replace the cap and screw the bottle shut.
- 17.- Withdraw the needle from the vein.



B. Detection of strict aerobic germs

- 12.- Block the wheel to stop blood flow.
- 13.- Withdraw the needle from the vein and cover it with its protective cotton cap.
- 14.- Remove any pressure on the pipe so as to empty it of blood.
- 15.- Withdraw the needle from the operculum.
- 16.- Wipe the rubber seal with a cotton swab soaked in alcohol.
- 17.- Replace the cap and screw the bottle shut.



- 18.- Shake flask carefully to mix the blood with the medium. Tilt flask in such a way that the broth covers the whole agar surface. Incubate at 37°C during 24-48 hours, and check after that period to see if any microbial growth has taken place.



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Hemocultures are control systems for microbial contamination in the blood, generally used in hospitals, clinics, etc.

Laboratorios CONDA offers specific ready-to-use flasks with various broths for use in aerobic, anaerobic and paediatric hemocultures.



LABORATORIOS CONDA

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Hemocultures for Aerobics

BRAIN HEART INFUSION BROTH
with SPS, Vacuum and CO₂
Cat. No. 3002
Box of 12 x 100 ml flasks

BRAIN HEART INFUSION BROTH
with SPS, Vacuum and CO₂
Cat. No. 3004
Box of 10 x 50 ml flasks

TRYPTICASEIN SOY BROTH with
SPS, Vacuum and CO₂
Cat. No. 3000
Box of 12 x 100 ml flasks

TRYPTICASEIN SOY BROTH with
SPS, Vacuum and CO₂
Cat. No. 3001
Box of 10 x 50 ml flasks

Hemocultures for Anaerobics

FLUID THIOGLYCOLLATE BROTH
with SPS, Vacuum and CO₂
Cat. No. 3104
Box of 12 x 100 ml flasks

FLUID THIOGLYCOLLATE BROTH
with SPS, Vacuum and CO₂
Cat. No. 3105
Box of 10 x 50 ml flasks

SCHAEDLER BROTH
with SPS, Vacuum and CO₂
Cat. No. 3106
Box of 12 x 100 ml flasks

SCHAEDLER BROTH
with SPS, Vacuum and CO₂
Cat. No. 3107
Box of 10 x 50 ml flasks

SCHAEDLER BROTH
reduced with Vit-K3 under
Vacuum, SPS, CO₂, N₂, H₂
Cat. No. 3108
Box of 12 x 100 ml flasks

SCHAEDLER BROTH
reduced with Vit-K3 under
Vacuum, SPS, CO₂, N₂, H₂
Cat. No. 3109
Box of 10 x 50 ml flasks

Paediatric Hemocultures

BRAIN HEART INFUSION with
SPS, Vacuum and CO₂ (aerobics)
Cat. No. 3005
Box of 8 x 20 ml flasks

SCHAEDLER BROTH with SPS,
Vacuum and CO₂ (anaerobics)
Cat. No. 3006
Box of 8 x 20 ml flasks

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