



Cary-Blair Transport Medium

REF CM0519B & CM0519K

EN

Intended Use

Cary-Blair Transport Medium (CM0519B) is a transport medium that can be used for clinical samples suspected of containing enteric pathogens.

Cary-Blair Transport Medium (CM0519B) is used in a diagnostic workflow to aid clinicians in determining potential treatment options for patients suspected of having bacterial infections.

The device is for professional use only, is not automated, nor is it a companion diagnostic.

Summary and Explanation

Cary-Blair Transport Medium is a simple, semi-solid, non-nutritive medium used for the collection and preservation of microbiological specimens. The minimal nutrients in the medium facilitate the survival of organisms without multiplication. The semisolid consistency provides ease of transport, and the prepared medium can be stored for up to 1 year after preparation at room temperature. Cary-Blair Transport Medium is a modification of Stuart's Medium which is comprised of an improved buffering system by replacing sodium glycerophosphate with inorganic phosphates. This improved formulation prevents the overgrowth of Enterobacteriaceae and contributes to the effective preservation of *Salmonella* and *Shigella* for long periods. It is used for the transportation of clinical specimens suspected to contain enteric pathogens, including *Shigella*, *Salmonella*, *Vibrio cholerae*, and *Escherichia coli* O157: H7.

Principle of Method

Cary-Blair Transport medium is a semi-solid medium with minimal nutrients. The sodium chloride and calcium chloride levels in the medium aid in controlling cell permeability and provide an osmotic balance environment for the preservation of viable bacterial cells. Sodium thioglycollate provides a low oxidation-reduction potential. In addition, disodium hydrogen phosphate helps maintain a stable pH and prevents pH fluxes that may be detrimental to the organisms present in clinical specimens. Alkaline pH of the medium minimizes bacterial destruction due to the formation of acid. Since this transport medium has a high pH (8.4), the viability of *Vibrio* cultures can be maintained for a longer duration and it is considered as the medium of choice for transport and preservation of *Vibrio cholerae*.

Typical Formula

	grams per litre
Di-sodium hydrogen phosphate	1.1
Sodium thioglycollate	1.5
Sodium chloride	5.0
Calcium chloride	0.09
Agar	5.6

Materials Provided

CM0519B: 500g of Cary-Blair Transport Medium Base

CM0519K: 25kg of Cary-Blair Transport Medium Base

500g of Cary-Blair Transport Medium Base yields approximately 36.7L after reconstitution

Materials Required but Not Supplied

- Inoculating loops
- Swabs
- Collection containers
- Incubators
- Quality control organisms

Storage

- Store product in its original packaging at 10–30°C until used.
- The product may be used until the expiry date stated on the label.
- Store away from light.
- Allow product to equilibrate to room temperature before use.
- Do not incubate prior to use.

Warnings and Precautions

- If eye contact occurs: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation persists.

- If skin contact: Was with plenty of soap and water. Get medical attention if irritation develops and persists.
- If ingested: clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
- If inhaled: Remove to fresh air. Get medical attention if symptoms occur.
- For in vitro diagnostic use only.
- For professional use only.
- Inspect the product packaging before first use.
- Do not use the product if there is any visible damage to the packaging or plates.
- Do not use the product beyond the stated expiry date.
- Do not use the device if signs of contamination are present.
- Do not use the device if the colour has changed or there are other signs of deterioration.
- It is the responsibility of each laboratory to manage waste produced according to their nature and degree of hazard and to have them treated or disposed of in accordance with any federal, state and local applicable regulations. Directions should be read and followed carefully. This includes the disposal of used or unused reagents as well as any other contaminated disposable material following procedures for infectious or potentially infectious products.

Refer to the Safety Data Sheet (SDS) for safe handling and disposal of the product (www.thermofisher.com).

Serious Incidents

Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the relevant regulatory authority in which the user and/or the patient is established.

Specimen Collection, Handling and Storage

Specimens should be collected and handled following local recommended guidelines, such as the UK Standards for Microbiology Investigations (UK SMI) ID 16, B 41, S 7 and Q 5.

Procedure

Suspend 13.3g in 1 litre of distilled water. Bring gently to the boil to dissolve completely. Distribute into small, screw cap bottles. Screw down the caps on the completely filled bottles. Sterilise by immersing in free steam for 15 minutes. Allow to cool and tighten the screw caps to prevent water loss. DO NOT AUTOCLAVE.

Interpretation

The presence of grey colonies indicates *Shigella sonnei*, *Vibrio parahaemolyticus* or *Vibrio cholerae*. Grey/green mucoid colonies indicates *Streptococcus pneumoniae*. White/grey colonies indicates *Streptococcus pyogenes*.

Quality Control

It is the responsibility of the user to perform Quality Control testing taking into account the intended use of the medium, and in accordance with any local applicable regulations (frequency, number of strains, incubation temperature etc.).

The performance of this medium can be verified by testing the following reference strains.

Inoculum level: $10^3 - 50^3$ cfu

Positive Controls Inoculum level: $10^3 - 50^3$ cfu Incubation Conditions: after 2 days @ $20 \pm 2^\circ\text{C}$	
<i>Streptococcus pneumoniae</i> ATCC® 6303™	Grey/green mucoid colonies
<i>Streptococcus pyogenes</i> ATCC® 19615™	White/grey colonies, β haemolysis
Incubation Conditions: after 3 days @ $20 \pm 2^\circ\text{C}$	
<i>Shigella sonnei</i> ATCC® 25931™	Grey colonies
<i>Vibrio parahaemolyticus</i> NCTC 11344	Grey colonies
<i>Vibrio cholerae</i> ATCC® 14035™	Grey colonies

Determine the viability of the test organisms using 200µl of inoculum on cotton wool swabs after 2 & 3 days storage in the medium at $20 \pm 2^\circ\text{C}$. Establish the viability on blood agar before and after immersion in the medium. There shall be no loss of viability as shown on blood agar after 24-48 hours incubation at 37°C .

Limitations

It is only intended for transport purposes, therefore, lengthy delays in transport or processing of specimens may result in diminished viability of bacterial cells and allow, to some degree, contaminating flora to replicate in the medium. Therefore, quick transport of the specimen is essential for accurate and conclusive laboratory results.

Prompt plating, refrigeration, or freezing of specimens in the Cary-Blair medium is particularly important for the isolation of *Shigella* which is comparatively more fragile than other enteric organisms.

Cary-Blair Transport Medium is sensitive to extreme heat; therefore, the medium has not been autoclaved; therefore the sterility of this product is tested but not absolute.














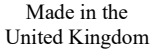

Specimens collected after initiation of antibiotic therapy may be contradicted for the successful recovery of the enteric pathogens

Performance Characteristics

Accuracy has been demonstrated through review of the QC data. Correct maintenance of anaerobic organisms is confirmed by the inclusion of a well-characterised isolate in the QC processes performed as part of the manufacture of each batch of the device. The precision of Cary-Blair Transport Medium (CM0519B) was demonstrated by an overall pass rate of 100% obtained for the product over three years of testing (15.01.2013 –12.09.2016; 10 batches). This shows that the performance is reproducible.

Cary-Blair Transport Medium (CM0519B) has been tested in-house as part of the QC process since it was first manufactured; Cary-Blair Transport Medium (CM0519B) has been on the market since 1996. When using 1000 – 5000 cfu and incubating *Streptococcus pneumoniae*; *Streptococcus pyogenes* for 2 days at 20 ± 2°C and incubating *Shigella sonnei*, *Vibrio parahaemolyticus* and *Vibrio cholerae* for 3 days at 20 ± 2°C, the user can recover organisms with colony size and morphology as listed in this document.

Symbol Legend

Symbol	Definition
	Catalogue number
	In Vitro Diagnostic Medical Device
	Batch code
	Temperature limit
	Use-by date
	Keep away from sunlight
	Consult instructions for use or consult electronic instructions for use
	Do not use if packaging damaged and consult instructions for use
	Manufacturer
	Authorized representative in the European Community/ European Union
	European Conformity Assessment
	UK Conformity Assessment
	Unique device identifier
	Made in the United Kingdom
	Importer - To indicate the entity importing the medical device into the locale. Applicable to the European Union



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For technical assistance please contact your local distributor.

Revision Information

Version	Date of modifications introduced
2.0	20-May-2025 Minor formatting changes