

## Transport Swab w/ Cary Blair Medium

### Intended Use

Transport Swab with Cary Blair Medium is used for recovery of aerobic, anaerobic and fastidious bacteria from faecal specimens.

### Summary

A transport medium is a non-nutritive, chemically defined, semi-solid, buffered medium. The sole purpose of this medium is to provide a controlled environment and to maintain the viability of organisms during the time from collection until the examination of the specimen. Transport medium should be essentially non-nutritive so that the test organisms do not rise in numbers during transport. Cary-Blair Medium is used for the collection and transport of clinical specimens. Originally the transport medium was devised by Stuart *et al.*, for carrying the gonococcal specimens to the laboratory. Later on, for transporting faecal specimens, Cary and Blair devised a new medium which consisted less nutrients, low oxidation and reduction potential and a high pH. Various authors have then used this medium and reported it to be quite satisfactory for transporting the clinical specimens.

### Principle

Cary-Blair Medium Base is formulated with minimal nutrients to facilitate survival of organisms without proliferation. Sodium thioglycollate serves to maintain a low oxidation-reduction potential. Alkaline pH of the medium lessens the bacterial disruption due to the formation of acid. Disodium phosphate salt maintains the buffering of the medium whereas sodium chloride retains the osmotic equilibrium. Sterile cotton swabs allow absorption of specimen material while polypropylene shaft allows semi flexibility to the swab stick, aiding in collection.

### Formula\*

Ingredients	g/L
Disodium Phosphate	1.1
Sodium Thioglycollate	1.5
Sodium Chloride	5.0
Agar	5.0
Final pH (at 25°C)	8.4 ± 0.2

\*Adjusted to suit performance parameters.

### Directions

1. Bring the Transport Swab w/ Cary Blair Medium to the room temperature 22°C-30°C.
2. Use Transport Swab w/ Cary Blair Medium as per required application.

### Quality Control

**Appearance:** Off white coloured, very slightly opalescent gel forms as butt.

**Cultural Response:** Cultural characteristics observed after incubation at 35°C-37°C for 18-24 hours, when subcultured on Soyabean Casein Digest Agar.

Organism (ATCC)	Growth
<i>Klebsiella aerogenes</i> (13048)	Good
<i>Escherichia coli</i> (25922)	Good
<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i> (10031)	Good
<i>Vibrio cholerae</i> (15748)	Good
<i>Vibrio parahaemolyticus</i> (MTCC 451)	Good
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i> (14028)	Good
<i>Shigella flexneri</i> serotype 2b (12022)	Good

### Storage and Stability

1. Store the ready to use Transport Swab w/ Cary Blair Medium at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### References

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

Cat. No.	Product Description	Pack Size
203200430005	Ready Prepared Tube	25 x 5 mL

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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