

PRODUCT IMPROVEMENT NOTICE: STORAGE RECOMMENDATION IS NOW 15-30°C

Revised July 2018

Michel Transport Medium & Michel Wash Solution - Technical Memo

SOLUTIONS:

Michel Transport Medium
Michel Wash Solution

500 ml

Part 1242A
Part 1243A

1 Liter

Part 1242B
Part 1243B

1 Gallon

Part 1242C
Part 1243C

30 ml vial, 15 ml fill (50/cs)

Part 12423C

20 ml vial, 10 ml fill (100/cs)

Part 12423D

Michel Transport Medium Vial

For storage requirements and expiration date refer to individual bottle labels.

APPLICATION:

Newcomer Supply Michel Transport Medium or pre-filled Michel Transport Medium Vials, provide a stable medium for transport of fresh unfixed tissues, such as renal, rectal, lymph node, skin and oral mucosa biopsies, which will undergo subsequent frozen sectioning and immunofluorescence studies.

- Michel Transport Medium is not a fixative and does not have any fixative properties.
- Michel Transport Medium is not suitable for transporting cells for flow cytometry or tissues used for fluorescent in-situ hybridization (FISH) studies.

Newcomer Supply Michel Wash Solution is used to rinse Michel Transport Medium from tissue after transport or storage and prior to freezing.

METHOD:

Fixation: Fresh unfixed tissue

Solutions: All solutions are manufactured by Newcomer Supply, Inc.

PROCEDURE:

1. Place fresh tissue in an adequate amount of Michel Transport Medium as soon as possible after excision.
 - a. See Procedure Note #1.
2. Ensure that the specimen is completely covered with Michel Transport Medium and is free floating.
3. Transport tissue to processing site in Michel Transport Medium up to a maximum of five days.
4. During transport or storage, maintain cool to ambient temperatures of 4°C to 22°C.
5. Upon receipt, wash tissue held in Michel Transport Medium with Michel Wash Solution; three changes, 10 minutes each.
6. Freeze tissue sample(s) per laboratory protocol.
7. Tissue placed in Michel Transport Medium may provide adequate results when processed for light microscopy review.
 - a. Wash tissue 2-3 minutes in tap water and place in appropriate fixative prior to processing.
 - b. See Procedure Note #2.

PROCEDURE NOTES:

1. Previously frozen tissue will not provide optimal testing results and should not be used with Michel Transport Medium.
2. Tissues held/transported in Michel Transport Medium, may provide satisfactory histological results if conditions as outlined in Procedure Steps #3 and #4 are maintained. Morphology detail will not be equal to that of expediently fixed and processed tissue.

REFERENCES:

1. Beutner, Ernst H., Tadeusz Chorzelski and Samuel Bean. *Immunopathology of the Skin*. 2nd ed. New York: Wiley, 1979. 65.
2. Carson, Freida L., and Christa Hladik Cappellano. *Histotechnology: A Self-instructional Text*. 4th ed. Chicago: ASCP Press, 2015. 24-25.
3. Chua, Allison, Gina Chua and David Kelly. "Preservation of Acetylcholinesterase Enzyme Activity in Non-Frozen Rectal Biopsy Specimens for Hirschsprung Disease". *The Journal of Histotechnology* 35.2 (2012): 80-88.
4. Michel, Beno, Yoram Milner and Kathy David. "Preservation of Tissue-Fixed Immunoglobulins in Skin Biopsies of Patients with Lupus Erythematosus and Bullous Disease". *The Journal of Investigative Dermatology* 59.6 (1973). 449-452.
5. Modifications developed by Newcomer Supply Laboratory.