

Michel Transport Medium & Michel Wash Solution - Technical Memo

SOLUTIONS:

	500 ml	1 Liter	1 Gallon
Michel Transport Medium	Part 1242A	Part 1242B	Part 1242C
Michel Wash Solution	Part 1243A	Part 1243B	Part 1243C

	30 ml vial, 15 ml fill (50/cs)	30ml vial, 15 ml fill (100/cs)	60 ml vial, 30 ml fill (100/cs)
Michel Transport Medium Vial	Part 12423C	Part 12423A	Part 12423B

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, skin and oral mucosa biopsies, which will undergo subsequent frozen sectioning and immunofluorescence studies.

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

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

METHOD:

Fixation: Fresh unfixed tissue

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

PROCEDURE:

1. Bring aliquot of Michel Transport Medium or a pre-filled Michel Transport Medium Vial to room temperature prior to use.
 - a. See Procedure Note #1.
2. Place fresh tissue in an adequate amount of Michel Transport Medium, ensuring that the specimen will be totally submerged in fluid during transport.
 - a. See Procedure Note #2.
3. Store and/or transport tissue in Michel Transport Medium up to a maximum of five days. Care should be taken to maintain cool to ambient temperatures of 4°C to 22°C during transport.
4. Upon receipt, wash tissue held in Michel Transport Medium in three changes of Michel Wash Solution for 10 minutes each change.
5. Freeze tissue per laboratory protocol.
6. Tissue placed in Michel Transport Medium may also be processed for light or electron microscopy review. Wash tissue 2-3 minutes in tap water and place in appropriate fixative prior to processing.
 - a. See Procedure Note #3.

PROCEDURE NOTES:

1. Michel Transport Medium is routinely stored at 4°C. During refrigerated storage some precipitation may develop on container bottom. Precipitation should re-dissolve by allowing solution to reach room temperature prior to use.
2. Previously frozen tissue will not provide optimal testing results and should not be used with Michel Transport Medium.
3. Tissues held/transported in Michel Transport Medium, prior to fixation and routine processing, should provide satisfactory histological results if conditions as outlined in Procedure Step #3 are maintained; although morphology detail may not be equal to that of expediently fixed and processed tissue.

REFERENCES:

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2. Carson, Freida L., and Christa Hladik. *Histotechnology: A Self-Instructional Text*. 3rd ed. Chicago, Ill.: American Society of Clinical Pathologists, 2009. 23.
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. Woods, Anthony E., and Roy Ellis. *Laboratory Histopathology: A Complete Reference*. 2nd ed. Edinburgh: Churchill Livingstone, 1996.
6. Modifications developed by Newcomer Supply Laboratory.