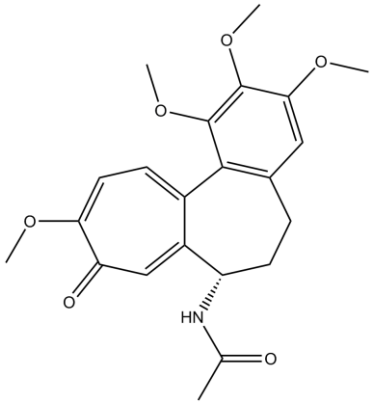
Product Information Sheet

C2026
Colchicine Solution
2.5 mg/mL

Synonym:	(1E)-N-[(7S)-1,2,3,10-Tetramethoxy-9-oxo-5,6,7,9-tetrahydrobenzo[a]heptalen-7-yl]ethanimidic acid
CAS:	64-86-8
Formula:	$C_{22}H_{25}NO_6$
Molecular Wt:	399.44



Properties:

Form:	Liquid
Appearance:	Clear, Colorless to Light Yellow Tint
Application:	Mutagen
Solubility:	Miscible with Water
Typical Working Concentration:	Varies with application, should be determined by end user.
Storage Temp:	-20°C
Other Notes:	Plant Tissue Culture Tested

Application Notes:
This product is used most to double the chromosomes of a cell. The mode of action is to inhibit microtubule formation, and thus mitosis. When mitosis is inhibited, the replicated chromosome(s) is(are) not compartmentalized into a new nucleus.

References

Andreu, J. M., & Timasheff, S. N., (1982) Tubulin bound to colchicine forms polymers different from microtubules. *Proc. Natl. Acad. Sci*. USA, 79, 6753-6756.

Arai, T., and Okuyama, T., (1975) Fluorometric assay of tubulin-colchicine complex. *Anal. Biochem.*, 69,443-450.

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Wilson, L & Friedkin, M, (1966) The biochemical events of mitosis. I. Synthesis and properties of colchicine labeled with tritium in its acetyl moiety. *Biochemistry*, 5, 2463-2468.

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