

TISSUE SOFT

IVD *In vitro* diagnostic medical device



Solution for softening the tissue embedded in paraffin block INSTRUCTIONS FOR USE

REF Product code: TS-OT-500 (500 mL) TS-OT-1L (1000 mL)

Introduction

During preparation and processing the tissue for diagnostic testing, the chemicals used influence the structure and molecular composition of the tissue greatly. BioGnost's Tissue Soft enables easier and simpler cutting of the tissue inside paraffin block. By immersing the paraffined tissue in Tissue Soft solution rehydration and tissue softening are achieved which provide easy cutting, without breaking of the block. This procedure eliminates the issue of uneven staining and loss of microanatomical details, which happens frequently during inadequate tissue processing. Tissue Soft is used in histology laboratories by cutting the paraffin block up to the place where embedded tissue is located, and then it is immersed in Tissue Soft. After treating the tissue block using Tissue Soft, the cutting procedure is easier, and microanatomical details of the section are better preserved.

Product description

- **TISSUE SOFT**- Solution for softening the tissue embedded in paraffin block before microtome section.

Preparation of paraffin block

- Prepare the paraffin block by using standard processing of fixed tissue through dehydration until embedding in paraffin
- Using a blade cut off the paraffin block up to the point where the embedded tissue is located
- Tissue Soft solution may be used with paraffin blocks prepared by any standard procedure of tissue paraffin processing.

Recommended procedure

1.	Mount the paraffin block on microtome and cut the sections until embedded tissue appears
2.	Remove paraffin block from the microtome and immerse it in Tissue Soft so that the visible part of the section is completely immersed.
3.	Tissue Soft penetrates the tissues at the speed of 3 mm through 24 hours. The soaking may last from a few hours up to the entire night, depending on the number of necessary sections. Good results are achieved by exposing the paraffin block to Tissue Soft for 30 minutes at 0°C.
4.	Remove the block from Tissue Soft solution, wipe it and place it on the microtome again
5.	Discard a few first sections if tissue swelling occurs

Restrictions

Many factors influence fixation and processing of the tissue, and subsequently the quality of the tissue section image. Tissue becomes softer and it provides more quality and straight sections after treating it with Tissue Soft. It is especially recommended for use with epithelial tissue and tissue rich in blood that often get crumbled during sectioning. However, the results after using Tissue Soft vary depending on the type of tissue, fixation and tissue processing procedure. We recommend testing the effects of Tissue Soft on paraffin blocks prepared using various processing techniques and with various types of tissues in order to determine the most efficient way of using Tissue Soft.

Preparing the sample and diagnostics

Use only appropriate instruments for collecting and preparing the samples. Process the samples with modern technology and mark them clearly. Follow the manufacturer's instructions for handling. In order to avoid mistakes, the staining procedure and diagnostics should only be conducted by authorized and qualified personnel. Use only microscope according to standards of the medical diagnostic laboratory.

Safety at work and environmental protection

Handle the product in accordance with safety at work and environmental protection guidelines. Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines. Chemicals used in this procedure could pose danger to human health. Tested tissue specimens are potentially infectious. Necessary safety measures for protecting human health should be taken in accordance with good laboratory practice. Act in accordance with signs and warnings notices printed on the product's label, as well as in BioGnost's material safety data sheet.

Storing, stability and expiry date

Keep Tissue Soft in a tightly sealed original packaging at temperature of +15°C to +25°C, in a dark place. Do not keep in cold places, do not freeze and avoid exposing to direct sunlight. Date of manufacture and expiry date are printed on the product's label.

References

1. Carson, F. L., Hladik, C. (2009): Histotechnology: A Self-Instructional Text, 3rd ed., Chicago: ASCP Press.
2. Kiernan, J.A. (2008): Histological and histochemical methods: Theory and Practice, 4th ed., Bloxham, Scion Publishing Ltd.
3. Callis, G., Sterchi, D. (1998): Decalcification of bone: literature review and practical study of various decalcifying agents, methods and their effects on bone histology. J. Histotechnol. 21:49-58.

TS-OT-X, V3-EN3, 05 July 2019, IŠP/VR

	Refer to the supplied documentation		Storage temperature range		Number of tests in package		Product code		European Conformity
	Refer to supplied instructions		Keep away from heat and sunlight		Valid until		Lot number		Manufacturer
	For <i>in vitro</i> diagnostic use only		Keep in dry place		Caution - fragile				

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