SCOTT'S SOLUTION

IVD In vitro diagnostic medical device CE

Buffered reagent for the conversion of red hematoxylin-stained nuclei to blue
INSTRUCTIONS FOR USE

REF Catalog number: SC-OT-1L (1000 ml) SC-OT-2.5L (2500 mL)

Introduction

Scott's solution is a histological reagent that substitutes tap water and enables fast and accurate bluing of nuclear chromatin and membranes of the cell nucleus. Because of its hardness and alkalinity, tap water changes the color of the nuclei previously stained with hematoxylin. Many hematoxylin modifications are used in histology and cytology for precise nuclear staining. By using BioGnost's Scott's solution, sample tissues no longer get degraded after adhering to glass slide (unlike other bluing reagents). Its synonym is Scott's tap water substitute.

Product description

- **SCOTT'S SOLUTION** - Bluing solution that contains magnesium sulphate ($MgSO_4$) and sodium bicarbonate ($NaHCO_3$) in optimal proportions diluted in water.

Product use

- Scott's solution is used for bluing the samples after staining with hematoxylin.
- It is also used in both regressive and progressive methods of HE staining, one of the most commonly used staining methods.
- Detailed procedure for the HE staining is described in BioGnost's Hematoxylin instructions for use (G1, G2, G3, H, M, ML).

Result

Scott's solution is of a low alkalinity level. The pH value gets elevated by bluing process, which causes the dye to change from red to blue.

Note

Time periods of staining procedures are not standardized. Intensity of staining depends on the period of immersion in the dye. Real staining protocol depends on personal requests and standard laboratory operating procedures.

Preparing the sample and diagnostics

Use only appropriate instruments for collecting and preparing the samples. All the samples must be processed with the most modern technology and be visibly marked. Follow the manufacturer's instructions for handling. In order to avoid mistakes, staining must be conducted by a trained professional. Only trained medical personnel may make a diagnosis. Use only microscope according to standards of the medical diagnostic laboratory. In order to avoid an erroneous result, a positive and negative check is advised before application.

Safety at work and environmental protection

Handle Scott's solution 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 Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines.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 which is available on demand.

Storing, stability and expiry date

Keep Scott's solution in a tightly closed original package at temperature of +15 to +25 °C. 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. Scott, S. G. (1912)On successive double staining for histological purposes Journal of Pathology and Bacteriology, v. 16, p. 390-398.
2. Sheehan, D.C. et Hrapchak, B.B. (1980): Theory and Practice of Histotechnology, 2nd ed St. Louise: CV Mosby Co.
3. Kiernan J. A. (2008) Histological and histochemical methods, 4th ed. Bloxham: Scion Publishing Ltd.

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⚠	Refer to the supplied documentation	°C	Storage temperature range	Σ	Number of tests in package	REF	Product code	CE	European Conformity	BIOGNOST Ltd. Medjugorska 59 10040 Zagreb CROATIA www.biognost.com	CE
	Refer to supplied instructions		Keep away from heat and sunlight		Valid until	LOT	Lot number		Manufacturer		
IVD	For *in vitro* diagnostic use only		Keep in dry place		Caution - fragile						