

INTENDED USE

0.5% Sudan Black is primarily used for the demonstration of lipids in cellular material in prepared slides from clinical specimens.

SUMMARY AND EXPLANATION

0.5% Sudan Black is insoluble in water but dissolves in fat and therefore accumulates in fat globules within a cell.

PRINCIPLE OF THE TEST

0.5% Sudan Black is a slightly basic dye that will combine with acidic groups in compound lipids, staining phospholipids also. It is considered to be a most sensitive and specific reagent for lipid staining.

MATERIALS PROVIDED

- PL.7119 0.5% Sudan Black 500 ml

Per 100ml solution:

- 0.5% Sudan Black contains 0.5g Sudan Black powder.

MATERIALS REQUIRED BUT NOT PROVIDED

- Glass slides
- Inoculating loop
- Microscope
- Immersion Oil PL.396

STABILITY AND STORAGE

0.5% Sudan Black should be stored at 15-25°C in its original container. Product stored under these conditions will be stable until the expiry date shown on the product label.

PRECAUTIONS

- For *In Vitro* Diagnostic Use only.
- For professional use only.
- Directions should be read and followed carefully.
- Do not use beyond the stated expiration dates.
- Microbial contamination may decrease the accuracy of the staining.
- Safety precautions should be taken in handling, processing and discarding all clinical specimens.
- Samples should be processed in the correct containment level conditions.
- Dispose of all material in accordance with local regulations.

TEST PROCEDURE

- Prepare a smear on a clean glass slide and allow to air dry.
- Heat fix and allow to cool.
- Flood the slide with 0.5% Sudan Black. Stand for 10 minutes.
- Drain off the stain and blot dry.
- Add several drops of xylene to clear the excess stain and blot dry.
- Flood the slide with safranin, stand for 10-15 seconds.
- Rinse with tap water and air dry.
- Examine using a microscope.

QUALITY CONTROL PROCEDURE

Internal quality control of the 0.5% Sudan Black stain must be performed regularly on known reference material.

Recommended Quality Control:

- Positive control – a proven positive
- Negative control – a proven negative

INTERPRETATION OF RESULTS

Globules of fat appear blue-black within red-stained cytoplasm, with phospholipids staining grey.

LIMITATIONS OF THE PROCEDURE

- Only experienced personnel should carry out the interpretation of stained slides
- Read prepared slides as soon as possible after staining. Failure to do so may affect the results.

REFERENCES


- Balzevic, D.J. and Edrer, G.M. (1975). Principles of Biochemical Tests in Diagnostic Microbiology. *John Wiley & sons*, New York, NY.
- Crookham, J. and Dapson, R. Hazardous Chemicals in the Histopathology Laboratory, 2nd ED, 199, *Anatech*.
- Hartman, T. L. The Use of Sudan Black B as a Bacterial Fat Stain. Pages 23-28. Published online: 12 Jul 2009.
- Lennette. Manual of Clinical Microbiology. *American Society for Microbiology*, Washington, D.C. 1974.












Advena Ltd. Tower Business Centre, 2nd Floor,
Tower Street, Swatar, BKR 4013, Malta.

HAZARDS IDENTIFICATION

Please refer to Safety Data sheets for full text for all hazard and precautionary statements.

 <p>DANGER</p>	PL.7119	H225, H319, H332, H371
	<p>P210, P270, P280, P303+P361+P353, P304+P340, P305+P351+P338, P312, P501</p>	

	= Use by
	= Lot number
	= Catalogue number
	= Manufacturer
	= Authorized Representative in the European Community
	= Contains sufficient for <n> tests
	= In vitro diagnostic medical device
	= Temperature limitation
	= Consult instructions for use

