

Sudan III sutured solution technical information

Technical card code 09-297

Product code 09-297

Stability of product properly conserved at 15-25°C 24 month.


Pack 100-250-500-1000 ml or on request

Produce in Italy by:

DDKItalia S.r.l

Via Marche 19-27029 Vigevano (Pv)

info@ddkitalia.com • info@dkitalia.eu

in case of emergency UE number		112
in case of emergency UK number		999
en cas d'urgence Suisse number		145

Sudan black B is for use in histochemical demonstration of neutrophil granules in blood or bone marrow films.

Several lipids including phospholipids, neutral fats and sterols are stained intensely by Sudan black. The reaction of neutrophil granules with the dye was described by Sheehan and Storey in 1947.¹ The leukocyte Sudan black staining pattern usually parallels that of myeloperoxidase.² Cells committed along lymphoid pathways display negative stain, whereas myeloid and monocytoid forms display characteristic positive reactions. Thus Sudan black is considered a useful adjunct in the identification of myelocytic and myelomonocytic leukemias.

Previous methods utilized formaldehyde vapour fixation of blood films. This technique may result in cell loss and staining artefacts.

Procedure

It is recommended that specimen collection be carried out in accordance with national directive. No known test method can offer complete assurance that blood samples or tissue will not transmit infection. Therefore, all blood derivatives or tissue specimens should be considered potentially infectious.

Freshly prepared whole or anticoagulated blood or bone marrow films may be used. Fix as soon as possible.

Notes:

It is recommended that blood films prepared from healthy donors be processed along with patient samples as a system-performance check. The data obtained from this procedure serves only as an aid to diagnosis and should be reviewed in conjunction with other clinical diagnostic tests or information.

Method

1. Cool Glutaraldehyde fixative solution in refrigerator (2–8°C).
2. Smears or films of blood or bone marrow preparations are fixed for 1 minute at 2–8°C with gentle agitation followed by thorough rinsing in deionised water.
3. Stain in Sudan black (Sudan black B) solution by immersion for 5 minutes with intermittent agitation.
4. Rinse 3 or more times in 70% ethanol until no more dye washes out. This is followed by thorough rinsing in distilled water.
5. Counterstain in Gill haematoxylin for 5 minutes followed by thorough rinsing in tap water.
6. After air drying, slides may be mounted in DdMount

Result

Neutrophil and their precursors show blue-black intracellular granulation.

Monocytes stain less intensely and lymphocytes do not stain with Sudan Black B.

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