

Trichrome Stain Set (Wheatley's Modification)

- The stain may be restored by leaving the lid off the jar for several hours to allow evaporation of the ethanol.
- The acid ethanol will continue to decolorize as long as it is in contact with the material. The time stated in the procedure for decolorizing should begin when the slide is placed in the acid ethanol solution and end after the slide is rinsed in 100% ethanol.

All components in the PROTO-FIX Wheatley's Trichrome Stain Set are available in larger sizes. Contact the CalibreScientific US, Inc. Sales Department.

EXPECTED RESULTS

Typical staining reactions using Wheatley's Trichrome Stain Set with specimens adequately fixed in PROTO-FIX and stained are listed below:

The nuclear chromatin, chromatoid bodies, ingested erythrocytes and bacteria are purple to red-violet.

The cytoplasm of trophozoites and cysts stains blue tinted with purple. Background material and artifacts stain blue-green to purple.

Helminth ova and larvae stain red to purple but may be more easily identified in a concentrated wet mount.

Macrophages, leukocytes and yeasts show variable staining from green to blue to purple or red.

Special staining procedures are necessary for the identification of *Cryptosporidium*, *Cyclospora* and *Microsporidia*.

LIMITATIONS OF PROCEDURES

Wheatley's Trichrome Staining method is usually a trouble-free procedure when used as directed. Any problems that may occur will usually be one of the following:

Problem: Poor contrast of the chromatin material.

Cause: Over-decolorizing.

Solution: Decolorizing (acid ethanol) requires only a very brief contact, followed by an immediate dip in ethanol.

Problem: Poor staining of the cytoplasm and the nucleus. Degenerate forms that stain weakly.

Cause: Parasitic and cellular elements have degenerated because of improper fixation.

Solution: To ensure proper fixation, specimens must be placed in a fixative solution immediately after passage. The proportion of specimen to fixative (1:3) must be observed, be thoroughly mixed and have sufficient time for fixation.

Problem: Stained preparation is "cloudy" with poor contrast of cellular detail.

Cause: Carryover of solutions from one step to another. Excessive staining (more than 30-40 slides) will weaken or dilute the stain.

Solution: Change all solutions regularly to avoid staining clarity problems

Problem: Inadequate material for microscopic examination.

Cause: Smear is too thin.

Solution: Smears should be moderately thick. If necessary, concentrate the fixed specimen by centrifugation. Pour off excess specimen fixative to provide thicker material for smears.

Problem: Persistent staining failure after considering all of the above.

Cause: Faulty technique and/or contaminated reagents.

Solution: Discard the entire stain series. Try again with new staining solutions.

BIBLIOGRAPHY

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CONTACT

CalibreScientific US, Inc. offers a complete line of reagents, stains, and QC1™ Quality Control Slides for AFB, Parasitology, Bacteriology, and Mycology processing, as well as O&P collection systems and concentration devices for Parasitology. For Technical Assistance, email Technical@AlphaTecSystems.com, and for Customer Service, email Sales@AlphaTecSystems.com, or call either [+1] 800.221.6058 (USA) or [+1] 360.260.2779 between 8AM and 4PM Monday through Friday, Pacific Time.

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Trichrome Stain Set (Wheatley's Modification)

PRODUCT CODES

0004627 PROTO-FIX Wheatley's Stain Set, 1 set, 10 x 50 ml



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GLOSSARY OF SYMBOLS

LOT Batch code / Numéro de lot / Número de Lote / Numero di lotto / Lot Nummer / Lotnummer / Lotnummer / Šaržna številka / Número de lote

REF Catalog number / Référence du catalogue / Número de catálogo / Numero di catalogo / Katalognummer / Catalog nummer / Het aantal van de catalogus / Kataloška številka / Número de catálogo

IVD In vitro diagnostic medical device / Pour usage diagnostique in vitro / Para uso diagnóstico in vitro solamente / Solo per uso diagnostico in vitro / Nur zur Verwendung als in vitro-Diagnostikum / Alleen voor in vitro diagnostisch gebruik / För invitrodiagnostik enbart / Samo za invitro diagnostiko / Apenas para uso em diagnóstico in vitro

EC REP Authorized representative in the European Community / Représentant européen autorisé / Representante Europeo Autorizado / Rappresentante europeo autorizzato / Autorisierte Europäischer Repräsentant / Germachtigde Europese vertegenwoordiger / Auktoriserad europeisk representant / Pooblaščen evropski predstavnik / Representante Europeu Autorizado



Use-by date / Utiliser avant la date de péremption indiquée / Use antes de la fecha indicada / Utilizzare entro la data indicata / Bis zum angegebenen datum verbrauchen / Gebruik door vermelde datum / Använd innan angivet datum / Porabiti do navadenega datuma / Usar até à data indicada



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Contains sufficient for <n> tests / Contenu suffisant pour <n> tests / Contiene suficiente para <n> pruebas / Contenido suficiente per <n> tests / Enthält ausreichend für <n> untersuchungen / Inhoud voldoende voor <n> testen / Innehåller tillräckligt för <n> tester / Vsebina zadostuje za <n> testov / Contém quantidade suficiente para <n> testes



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