



First for Pathology
A THERMO FISHER SCIENTIFIC COMPANY

Quick Dip (Field) Staining

For In-Vitro Diagnostics

For Professional Use only

Quick Dip (Field) is a three part reagent kit designed to simplify the routine staining for quick differential stains. Quick Dip (Field) Staining is used for rapid processing and staining thin blood films in order to discover malarial parasites in blood, and helicobacter

The complete Quick Dip Stain Kit consists of Quick Dip Fixative, Quick Dip I, and Quick Dip II.

Sample Preparation

Capillary or venous blood is both suitable for the preparation of blood films.

In the event when no anticoagulant is involved, the blood films must be prepared immediately. Should an anticoagulant be required, ethylene diamine tetracetic acid, or EDTA, is preferred.

All specimens need to be thoroughly dried prior to commencement of fixation and staining process.

Mode of Action

Polychromatic eosin yellowish and methylene blue specifically stain basophilic and acidophilic cellular elements to demonstrate blood cells and haemoparasites.

Warnings and Precautions

Quick Dip Fixative is an alcoholic fixative and is flammable. **Use the product in a well-ventilated area**, and wear suitable protective gloves and clothing when handling the product.

Please consult the SDS and packaging labels before use.

Ingredients

Quick Dip I

Ingredient	CAS Number	Conc.
Eosin Yellowish	17372-87-1	<0.5%
di-Sodium Hydrogen Orthophosphate	7558-79-4	<1%
Sodium Dihydrogen Orthophosphate	7558-80-7	<1%
Sodium Azide	26628-22-8	<0.1%
Water	7732-18-5	Balance

Quick Dip II

Ingredient	CAS Number	Conc.
Methylene Azure B		<1%
di-Sodium Hydrogen Orthophosphate	7558-79-4	<1%
Sodium Dihydrogen Orthophosphate	7558-80-7	<1%
Sodium Azide	26628-22-8	<0.1%
Water	7732-18-5	Balance

Quick Dip Fixative

Ingredient	CAS Number	Conc.
Methanol	67-56-1	>99%
Methylene Blue	61-73-4	<1%

Specifications

Quick Dip I

Appearance	Clear Red Liquid
pH @ 20°C	6.5 – 7.0
Absorbance (λ max)	Approx 516nm

Quick Dip II

Appearance	Clear Blue Liquid
pH @ 20°C	6.5 – 7.0
Absorbance (λ max)	Approx 610 to 630 nm

Quick Dip Fixative

Appearance	Clear Light Blue Liquid
Density @ 20°C	0.790 - 0.800 g/mL

Stability

Quick Dip I, Quick Dip II and Quick Dip fixative are stable for 1 year when stored at room temperature in a sealed container away from heat and light.

Technical Procedure

Thick Films

1. Prepare three containers to hold adequate volume for each of the reagents in the kit, fill the first container with Quick Dip I (Field Stain B), the second with Quick Dip II (Field Stain A), and the last container with deionised water.
2. Do **NOT** fix Thick Film samples, as the samples need to be haemolysed.
3. Dip slide or rack of slides five to seven times (1 second each) into Quick Dip I (Field Stain B)
4. Next, dip slide or rack of slides seven to ten times (1 second each) into Quick Dip II (Field Stain A)
5. Rinse slides or rack of slides in deionised water until blue stain ceases to leach out.
6. Air dry the slides(s) before examination.



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Thin Films

1. Prepare four containers to hold adequate volume for each of the reagents in the kit, fill the first container with Quick Dip Fixative, the second with Quick Dip I (Field Stain B), the third with Quick Dip II (Field Stain A), and the last container with deionised water.
2. Fix the slides by immersing the slide or rack of slides into Quick Dip Fixative for about 10 minutes.
3. Dip slide or rack of slides five to seven times (1 second each) into Quick Dip I (Field Stain B)
4. Next, dip slide or rack of slides seven to ten times (1 second each) into Quick Dip II (Field Stain A)
5. Rinse slides or rack of slides in deionised water until blue stain ceases to leach out.
6. Air dry the slides(s) before examination.

Results and Interpretation

Only experienced and suitably qualified persons should carry out interpretation of stained slides.

Malaria Parasites¹

	Thin Film	Thick Film
Chromatin of parasite	Dark Red	Dark Red
Cytoplasm of parasite	Blue	Blue-mauve
Schuffner's Dots	Red	Pale Red
Maurer's Dots	Red-mauve	-
Malaria Pigment of white cells	Brown Black	Yellow brown or brown black
Red Cells	Grey to pale mauve pink	-
Reticulocytes	Grey Blue	-
Nuclei of Neutrophils	Dark Purple	Dark purple
Cytoplasm of mononuclear cells	Blue-grey	Blue-grey
Granules of eosinophils	Red	-

Notes

This product is designed to be used at its full strength and does not require any further dilution or additive.

Never leave the cap open.

Always prepare fresh solutions just before use and discard used solutions. Do not return used stains to

¹ District Laboratory Practice in Tropical Countries, Part 1, 2nd Edition, Monica Cheesbrough, Cambridge University Press, 2009, pg 247

its original container as this may adversely affect the overall performance of the unused product.

Tone and intensity of colour may be adjusted as follows:

1. **Too blue** – Decrease 1 dip in Quick Dip II.
2. **Too red** – Decrease 1 dip in Quick Dip I.
3. **Too dark** – Decrease 1 or 2 dips in Quick Dip I & II.
4. **Too light** – Increase 1 or 2 dips in Quick Dip I & II.

A minimum of 3 dips (1 second each) in Quick Dip I & II is required. Always dip slide in Quick Dip Fixative a minimum of 5 dips (1 second each)

Times may vary slightly; always do a trial for each batch.

Quick Dip I is equivalent to Field Stain B
Quick Dip II is equivalent to Field Stain A

References

Barbara J. Bain, Imelda Bates, Mike A Laffa., and S. Mitchell Lewi;. Dacie and Lewis Practical Haematology: Expert Consult: Online and Print, 11e. Churchill Livingstone, 2012

Cheesbrough, Monica; District Laboratory Practice in Tropical Countries, Part 1, 2nd Edition, Cambridge University Press, 2009

Ordering Information

Code	Product Name	Size
FNNGG001	Field's Stain A	100 mL
FNNGG002	Field's Stain A	500 mL
FNNGG003	Field's Stain B	100 mL
FNNGG004	Field's Stain B	500 mL
FNNGG017	Quick Dip Fixative	500 mL
FNNGG018	Quick Dip Fixative	2.5 L
FNNGG019	Quick Dip Fixative	5L
FNNGG020	Quick Dip I	500 mL
FNNGG021	Quick Dip I	2.5 L
FNNGG022	Quick Dip I	5 L
FNNGG023	Quick Dip II	500 mL
FNNGG024	Quick Dip II	2.5 L
FNNGG025	Quick Dip II	5 L
FNNQUICK	Quick Dip Kit	Kit
DIPKIT500	Quick Dip Kit	(500mL)