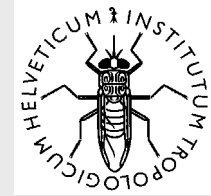


# Methods in Parasitology

---



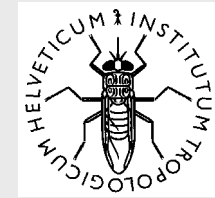
## 3. Staining blood films with Field's stain

- a) Thin films
  - b) Thick films
- (according to WHO)

Swiss Tropical Institute, Basel

April 2005

## 3.0 Field's stain for thin films



### Contents

- 3.1 Fixing thin films
- 3.4 Staining thin films
- 3.9 Staining thick films

#### Production Team:

Yvette Endriss, Elisabeth Escher & Birgit Rohr  
Prof. Hanspeter Rohr (NeoCortex Foundation)  
Prof. Niklaus Weiss (STI)

## 3.1 Field's stain for thin films

### A: Thin films

#### Materials:

- Methanol (absolute)
- Field's stain A und B
- Tube with water
- Staining dishes
- Filter paper



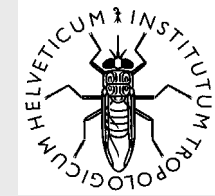
## 3.2 Field's stain for thin films

Fixation:

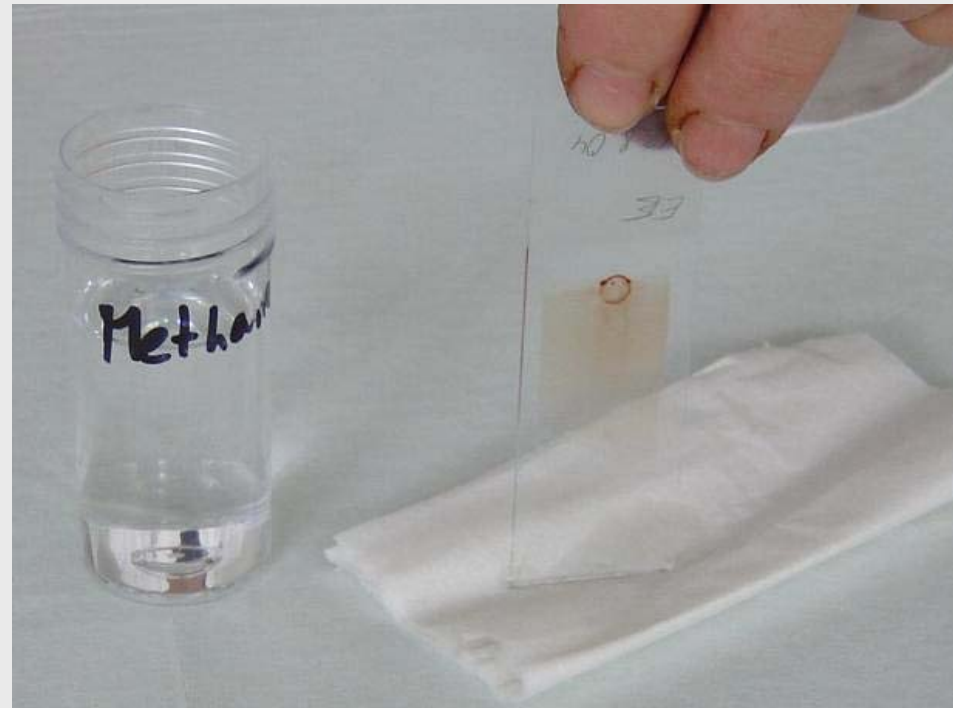
Fix thin film with  
Methanol for 1 min.



### 3.3 Field's stain for thin films



Dry microscopic slide  
on filter paper



## 3.4 Field's stain for thin films

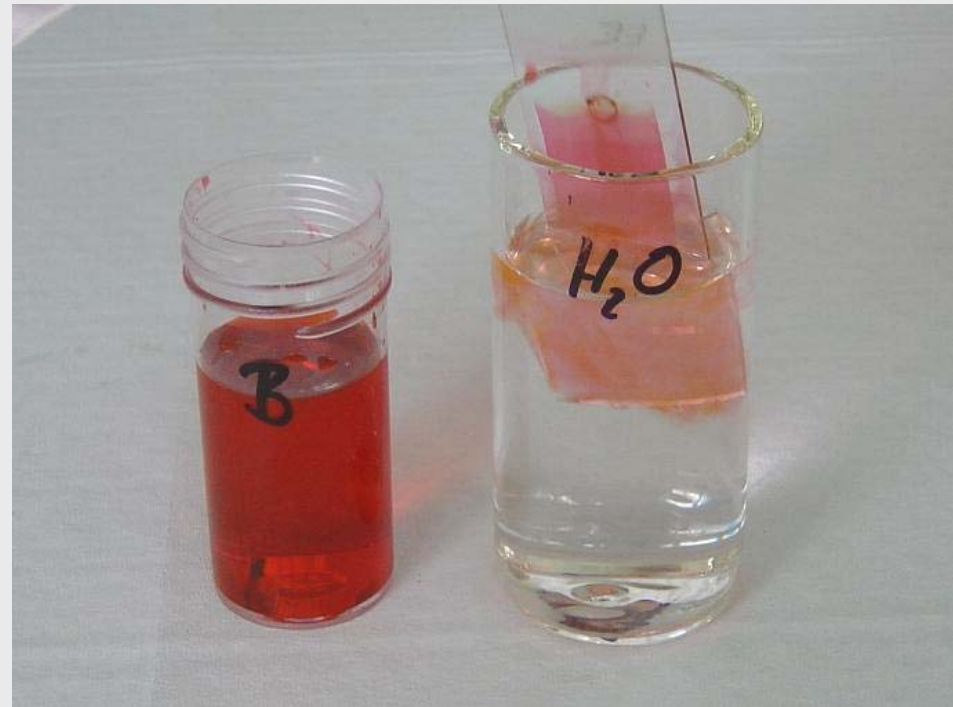
Immerse slide in Field's stain B (Eosin) for 5 seconds



## 3.5 Field's stain for thin films



Immediately wash with  
tap water!



## 3.6 Field's stain for thin films

Immerse slide in  
Field's stain A  
(Methylene blue) for  
10 seconds



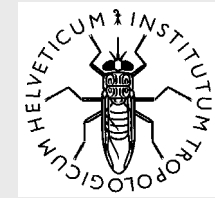
## 3.7 Field's stain for thin films



Immediately wash with  
tap water



## 3.8 Field's stain for thin films



Dry thin films



## 3.9 Field's stain for thick films

### B: Thick films

Materials:

- Methanol No!
- Field's stain A und B
- Tube with water
- Filter paper



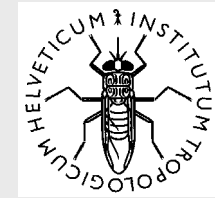
## 3.10 Field's stain for thick films

Immerse thick film  
in Field's stain A  
(Methylene blue)  
for 3 seconds

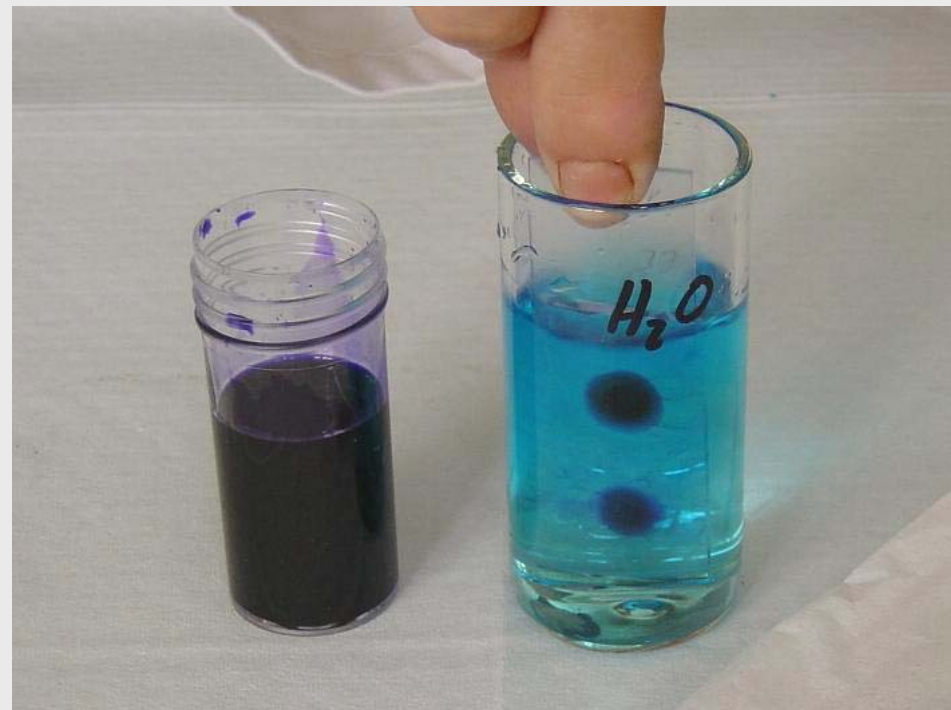
Do not forget:  
Thick films need to be  
haemolysed and are  
therefore not fixed with  
methanol!

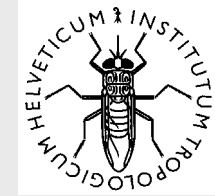


## 3.11 Field's stain for thick films



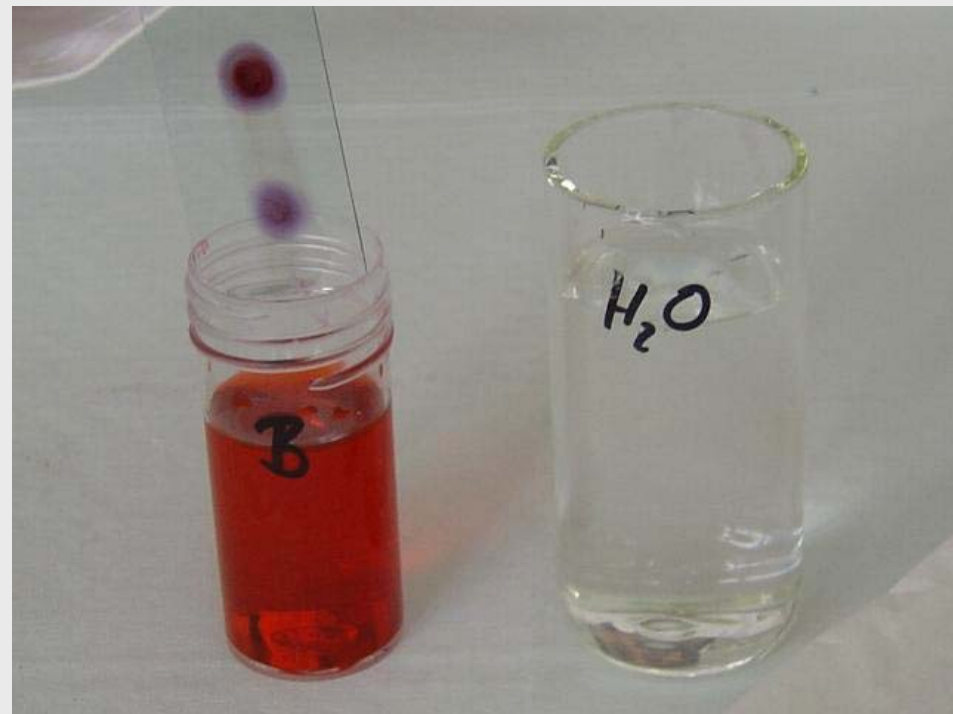
Rinse immediately in  
tap water





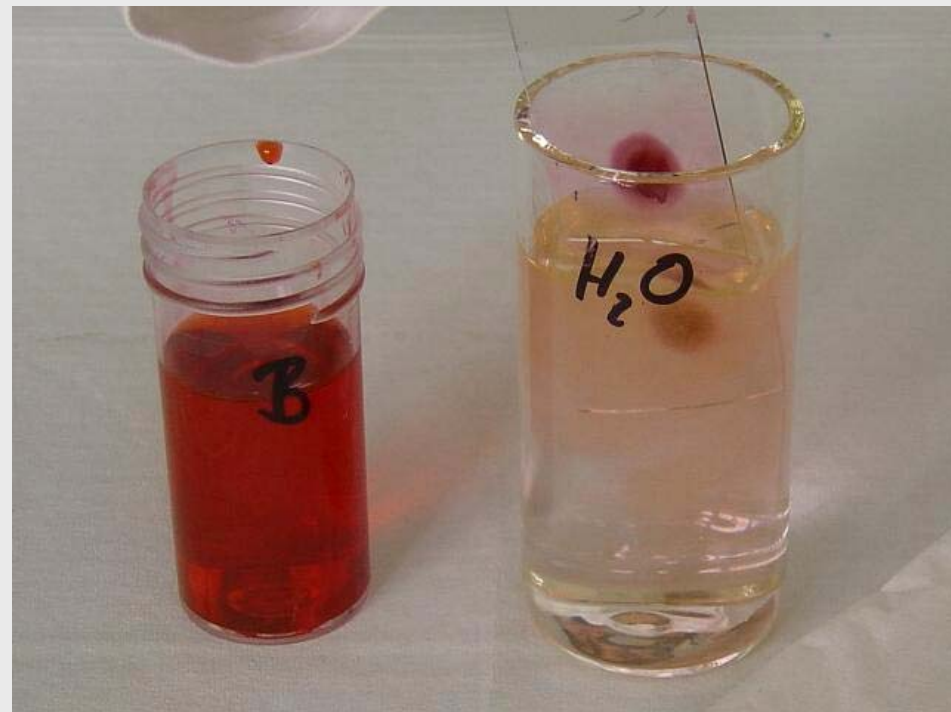
## 3.12 Field's stain for thick films

Immerse thick film in  
Field's stain B (Eosin)  
for 3 seconds

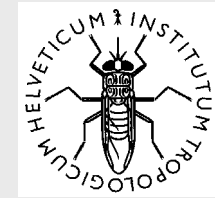


### 3.13 Field's stain for thick films

Then rinse immediately  
with tap water



## 3.14 Field's stain for thick films



Let the slide  
carefully dry

