Laboratory Training and Procedures
Techniques Used in Parasitology
Kato and Miura concentration method
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Principle
This method is used to prepare a thick smear for lightening.
It is effective to screen for the eggs of ascaris and of Trichuris trichiura.
It is not effective to screen for cysts, larvae and eggs of hookworm.

Equipment
- Kato reagent
- Small crystallizer
- Slide
- Paper filter
- Cellophane strip

Operating method
1. Soak the strips of cellophane in the Kato reagent for at least 24 hours.
2. Leave them to drain before use.
3. Place a bead of stools onto the slide.
4. Cover by a cellophane strip.
5. Turnover and press the mount onto a paper filter.
6. Leave for one hour at room temperature.
7. Read immediately.

Preparation of the reagent
- 100 ml water
- 100 ml glycerin
- 3 drops of 5% malachite green
Mix the three ingredients well and store in a brown glass bottle.

Important: A semi-quantitative measurement is possible by calibrating the bead of stools with a piece of cardboard perforated at the desired diameter.