

Synchronization of Cultures

Reagents:

- 5% w/v Sorbitol Solution
- Complete Medium
- Parasite Culture at 0.5% Parasitemia

Protocol:

Day 1

1. Resuspend the culture and transfer to a sterile falcon tube.
2. Centrifuge @ 800xg 5 min.
3. Remove supernatant.
4. Resuspend pellet in 10 volumes of 5% sorbitol.
5. Incubate 20' @ RT.
6. Centrifuge @ 800xg 5 min.
7. Remove supernatant.
8. Resuspend pellet in 5 volumes complete medium to wash.
9. Centrifuge @ 800xg 5 min.
10. Resuspend pellet in complete medium to volume of original flask.
11. Gas and return flask to incubator.

Day 2

1. Change medium and take a smear. Trophozoites and schizonts stages present.

Day 3

1. Change medium and take a smear. Ring stage present.
2. If necessary, repeat Day 1 synchronization.

Day 4

1. Change medium and take a smear. Parasitemia should be high (8.0-10.0%)
2. Dilute into large/more flasks.