

LIVE AND DEAD SPERM PERCENTAGE

Staining the sperm with Eosin & Negrosin(E&N) is practised when the percentage of live and dead sperm, as well as abnormalities, is needed.

Step by step:

- On a glass slide, place $\frac{3}{4}$ drops of E&N + 1 drop of net semen (using Pasteur pipette)
- Let the stain be absorbed into the sperm
- Make a wet smear: take 10 μ L of a drop of stained semen and put it on a glass slide (tip of the slide).
- Push the cover slip slightly towards the stained semen until the capillary action takes place.
- Then, smear backwards to make a nice, thin smear.
- Use oil immersion technique at 100x objective:
- Eosin(Reddish) + Negrosin(Purplish)
- If sperm is purplish= dead(will absorb the stain)
- Count at least 200 sperm
- Count the live and dead, abnormalities at the same time before you change the view.

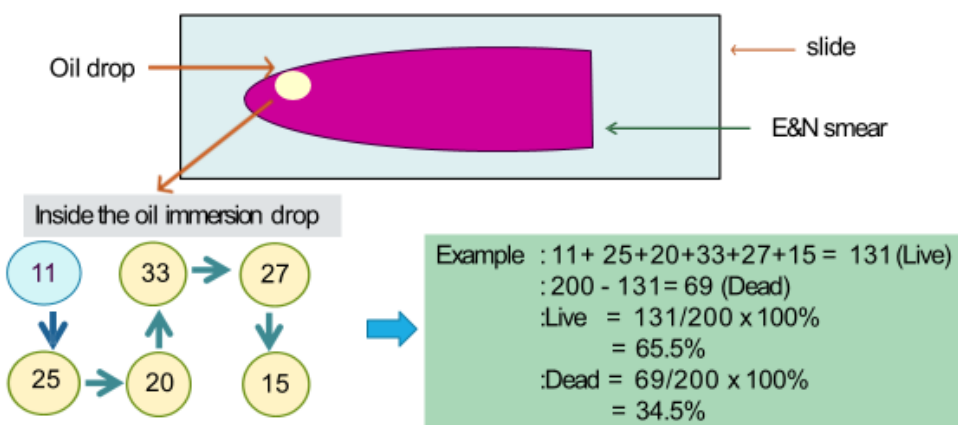
Formula:

Live spermatozoa(%) = (no. of live sperm/ total of sperm counted) x 100%

Dead spermatozoa(%) = (no. of dead sperm/total of sperm counted)x 100%

Abnormal spermatozoa(%) = (no. of abnormal sperm/total of sperm counted) x 100%

- During counting, the total number of sperm is not necessarily stopped to be counted at 200 spermatozoa. All sperm should be counted when the last view is exceed 200.



*Calculation is based on the 200 total spermatozoa