Eosin-Nigrosin coloring kit

Catalogue No.: K087

Size: 10mL/20mL

Kit component:

Item	10 mL	20 mL
Eosin-Nigrosin solution	10 mL	20 mL

Storage:

The kit should be stored at 25°C for one year.

Principle of the Assay:

Eosin-Nigrosin coloring kit is a live sperm staining solution, which can routinely detect the viability of all sperm samples, and identify the sperm with intact cell membrane by dye exclusion method, so as to obtain the percentage of live sperm.

The staining solution was composed of eosin staining solution and nigrosin staining solution. According to the dye exclusion principle, non-permeable membrane dyes were allowed to enter the membrane of non-living (dead) cells for staining. The cell membrane of living cells can resist the entry of dyes, resulting in dye rejection and no color.

Assay Procedur (For reference)：

1. The semen samples were thoroughly mixed：Before taking the semen sample for evaluation, the semen should be thoroughly mixed in the original semen collection container, taking care not to produce bubbles due to severe agitation.

2. One drop of fresh semen and 1-2 drops of Eosin-Nigrosin solution were added to the clean test tube, and then placed for 30-60 seconds.

3. One drop of the above mixture was added dropwise to the slide to make a smear.

4. After drying, microscopic examination, and oil microscopic observation, uncolored live sperm were white, dead sperm were red, and the background was black.

5. Two hundred sperm were counted, and the percentage of unstained (Live) sperm in 200 sperm was calculated.

Results：

Live sperm	Uncolored(White)
Dead sperm	Red
Background	black

Notes:

1. Once the semen sample is liquefied, the sperm survival rate should be detected immediately. It is best to use it within 30 minutes, and cannot exceed 1 hour in any case, so as to avoid sperm inactivation caused by dehydration or temperature change and the staining test result is inaccurate.

2. The reagent is only suitable for scientific research, not for clinical diagnosis or other purposes.