

精子活体染色液(伊红-苯胺黑法)

货号: G2581

规格: 10mL/20mL

保存: 室温, 避光保存, 有效期 1 年。

产品组成:

名称	10mL	20mL	保存
试剂 A: 伊红染色液	4mL	8mL	室温, 避光
试剂 B: 苯胺黑染色液	6mL	12mL	室温, 避光

产品介绍:

精子活体染色液(伊红-苯胺黑法)可以常规检测所有精子标本的存活率, 通过染料拒染法来鉴别细胞膜完整的精子, 从而得出活精子的百分率。该染色液由伊红染色液、苯胺黑染色液组成, 利用了染料拒染原理, 即相关基于损伤的细胞膜, 如在非活的(死)细胞上的膜, 允许非膜透过性染料可进入膜内染色; 而活细胞的细胞膜能够抗拒染料进入, 产生拒染现象, 不着色。该染色液仅适用于临床诊断或其他用途。

操作步骤: (仅供参考)

1. 将新鲜精液样本置于 37℃ 恒温箱或水浴 30min 使精子充分液化, 轻摇混匀。
2. 取洁净小试管, 滴加新鲜精液 1 滴 (5-10 μ L) 和等量伊红染色液, 混匀放置 15s。
3. 滴加苯胺黑染色液 2 滴 (10-20 μ L), 混匀, 即为精液-伊红-苯胺黑染色液, 放置 15-30s。
4. 滴加上述精液-伊红-苯胺黑染色液 1 滴 (5-10 μ L) 于载玻片上, 制成涂片。
5. 晾干、镜检。油镜下观察, 未着色的精子为白色, 死精子呈红色, 背景呈紫红色。
6. 计数 200 个精子, 计算未着色 (活精子) 占 200 个精子的百分率。

染色结果:

活精子	不着色
死精子	红色
背景	紫红色

注意事项:

1. 精液标本一旦液化应立即检测精子存活率, 最好在 30min 内, 在任何情况下都不能超过 1h, 以免因脱水或温度变化导致精子失活而使染色检测结果不准。
2. 涂片干燥后可能会观察到少量盐结晶, 属于正常现象。

Sperm Vitality Kit (Eosin-Nigrosin Method)

Cat: G2581

Size: 10mL/20mL

Storage: RT, avoid light, valid for 1 year.

Kit Components

Reagent	10mL	20mL	Storage
Reagent A: Eosin Staining Solution	4mL	8mL	RT, avoid light
Reagent B: Nigrosin Staining Solution	6mL	12mL	RT, avoid light

Introduction

Sperm Vitality Kit (Eosin-Nigrosin Method) can be used to detect the survival rate of all sperm samples, and to identify the sperm with intact cell membrane by dye rejection method, so as to obtain the percentage of living sperm. The dye solution is composed of Eosin Stain Solution and Nigrosin Stain Solution. The dye rejection principle is that the damaged cell membrane, such as the membrane on the dead cell, allows the non membrane penetrating dye to enter for dyeing, while the cell membrane of the living cell can resist the dye entry, resulting in the phenomenon of dye rejection. The staining solution is only suitable for clinical diagnosis or other purposes.

Protocol(for reference only)

- Put the fresh semen sample in 37 °C incubator or water bath for 30 min to liquefy the sperm, shake and mix well.
- Take a clean small test tube, add 1 drop of fresh semen and 1-2 drops of Eosin Staining Solution, mix well, and place for 15s.
- Add 3 drops of Nigrosin Staining Solution and mix well to form Semen-Eosin-Nigrosin Staining Solution, place for 30-60 s.
- Add 1 drop of the above Semen-Eosin-Nigrosin Staining Solution on the slide to make a smear.
- Dry it and view under the microscope. Under the oil immersion lens, the colorless sperm is white, the dead sperm is red and the background is reddish brown.
- Count 200 sperm and calculate the percentage of unstained (living sperm) in 200 sperm.

Result

Living sperm	Colorless
Dead sperm	Red
Background	Reddish Brown

Note

Once the semen sample is liquefied, the sperm survival rate should be detected immediately, preferably within 30 min and no more than 1 h under any circumstances, so as to avoid causing sperm lose effect due to dehydration or temperature change and showing inaccurate staining results.