精子活体染色液(伊红法)

货号： G2582
规格： 10mL
保存： 室温，避光保存，有效期 1 年。

产品介绍：

伊红(Eosin)又称曙红，属人工合成染料中的呫吨类染料，为桃红色或粉红色的粉末。分子式为$C_{20}H_6O_5Br_4Na_2$，分子量为 691.86。 临床上，可通过检测精子膜的完整性来评价精子的存活率，用精子活体染色液(伊红法)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、去离子水等组成，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，所以产生拒染现象，不着色。该染色液液仅适用于科研领域，不适用于临床诊断或其他用途。

操作步骤：(*仅供参考*)

1、 取洁净载玻片，滴加新鲜精液和精子活体染色液(伊红法)各 1 滴，混匀。
2、 加盖盖玻片，放置 30-60s，立即在高倍镜(可用 400×)下观察。
3、 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

注意事项：

1、 精液标本一旦液化应立即检测精子存活率，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、 为了您的安全和健康，请穿实验服并戴一次性手套操作

Sperm Vitality Detection Solution (Eosin Method)

Cat:G2582
Size:10mL
Storage: RT, avoid light, valid for 1 year.

Introduction

Eosin is one of xanthene dyes in synthetic dyes, which is pink or pink powder. The molecular formula is $C_{20}H_6O_5Br_4Na_2$, and the molecular weight is 691.86. In clinical, the sperm survival rate can be evaluated by detecting the integrity of sperm membrane. The Sperm Vitality Detection Solution (Eosin 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 and distilled water. 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*)

1. Take a clean slide, add 1 drop of fresh semen and 1 drop of Sperm Vitality Detection Solution (Eosin Method), and mix well.
2. Cover and place it for 30-60s, then immediately view under high power microscope (such as 400 ×).
3. Count 200 sperm and calculate the percentage of unstained (living sperm) in 200 sperm.

Result

Living sperm	Colorless
Dead sperm	Red

Note

1. Once the semen sample is liquefied, the sperm survival rate should be detected immediately, preferably within 30 minutes 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.
2. For your safety and health, please wear experimental clothes and disposable gloves.