V02

精子活体检测试剂(低渗膨胀法)

货号：G2580
规格：10mL
保存：-20℃保存，有效期 1 年。

产品介绍：

临床上，可通过检测精子膜的完整性来评价精子的存活率，当精子处于低渗溶液时，水分子可通过精子膜进入精子，使精子体积增大而膨胀，尤以正常精子尾部的膨胀比较明显，而膜不完整或死精子一般表现为不膨胀。该试剂盒由枸橼酸纳、D-果糖等组成，利用上述低渗膨胀原理，能够很好的分析精子存活率。该液仅适用于科研领域，不适用于临床诊断。

操作步骤：(*仅供参考*)

1、 取洁净小试管，加 1ml 精子低渗膨胀液，37℃预温 5min。
2、 加入 0.1ml 液化精液，轻轻搅匀，37℃孵育 30-60min。
3、 相差显微镜下观察精子，膨胀精子为尾部形态发生变化的精子，即活精子。
4、 计数 200 个精子，计算膨胀精子(活精子)占 200 个精子的百分率。

染色结果：

活精子	尾部形态发生变化
死精子	未变化

参考区间：排精 30～60min 内，70%以上的精子应为活动精子。低渗膨胀实验应有 60%以上精子出现尾部膨胀。

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、 避免反复冻融，以免失效，可分装成小包装。

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Sperm Vitality Detection Solution (HOS Method)

Cat: G2580
Size:10mL
Storage: -20℃, valid for 1 year.

Introduction

In clinic, the survival rate of sperm can be evaluated by testing the integrity of sperm membrane. When the sperm is in a hypoosmotic solution, water molecules can enter the sperm through the sperm membrane, making the sperm volume increase and expand, especially the expansion of normal sperm tail is more obvious, while the incomplete membrane or dead sperm generally show no expansion. The kit is composed of sodium citrate, D-fructose and so on. Using the principle of low osmotic expansion, it can analyze the sperm survival rate well. This kit is only suitable for scientific research, not for clinical diagnosis.

Protocol(*for reference only*)

1. Take a clean small test tube, add 1ml sperm low osmotic expansion solution and preheat at 37 ℃ for 5min.
2. Add 0.1ml liquefied semen, mix gently, incubate at 37 ℃ for 30-60min.
3. Observe the sperm under phase contrast microscope. The expanded sperm is the sperm whose tail shape changes, which is called living sperm.
4. Count 200 sperm and calculate the percentage of expanded sperm (living sperm) in 200 sperm.

Result

Living sperm	Tail shape changes
Dead sperm	No change

Reference range: within 30-60 min after ejaculation, more than 70% of sperm should be active sperm. More than 60% of sperm should have tail expansion in hypotonic expansion test.

Note

1. Once the semen sample is liquefied, the sperm survival rate should be detected immediately, preferably within 30 min and no more than 1 hour under any circumstances, so as to avoid causing sperm lose effect due to dehydration or temperature change and showing inaccurate staining results .
2. Avoid repeated freezing and thawing to cause losing effect. It can be distributed in small packages.