

Sperm BWB Culture Medium

Cat: G2585

Size: 100mL/500mL

Storage: -20°C, valid for 6 months.

Introduction

Normal semen is a kind of mixture, which is composed of the secretion of testis and epididymis and the sperm suspended in it and the secretion of prostate gland, seminal vesicle gland and bulbar gland of urethra during ejaculation. The resulting mixture is a viscous liquid. There are many methods of sperm analysis, which can detect by culture.

Sperm BWB Culture Medium is also called capacitating medium, which is mainly composed of a series of salt ions, phenol red, glucose, sodium pyruvate, BSA and antibiotics. Each 1000mL BWB Culture Medium contains 100000 U of penicillin sodium salt and 100mg of streptomycin. It is a common nutrient solution for capacitative treatment of broad-spectrum animal and human sperm cells.

Protocol(for reference only)

1. Take a clean semen sample and place it at room temperature for 30-60min to make it fully liquefied.
2. Prepare sperm cells (*for reference only, not necessary step*):
 - 1) Upper stroke method.
 - 2) Discontinuous density gradient method.
3. Incubate the centrifuge tube with sperm cells in a cell incubator containing 5% CO₂ and 95% air at 37 °C. If there is no such incubator, can seal and cover the centrifuge tube, then incubate it in an ordinary incubator at 37 °C. In the process of incubation, most of the motile sperm dissociate from seminal plasma to the culture medium covered above.
4. Centrifuge the sperm suspension to make the sperm cell density close to 10×10⁶/mL. Resuspend the sperm cell in BWB Culture Medium and incubate in a cell incubator containing 5% CO₂ and 95% air at 37 °C. If there is no such incubator, can seal and cover the centrifuge tube, then incubate it in an ordinary incubator at 37 °C. During incubation, tilt the tube in 20°.

Note

1. Pay attention to aseptic operation and try to avoid pollution.
2. If there is no Earle culture solution or supplementary Earle culture solution, can replace with Sperm BWB Culture Medium.
3. For your safety and health, please wear experimental clothes and disposable gloves.