

PBSt Protocol

PBSt PHOSPHATE- BUFFERED SALINE TABLETS FOR SIMPLE SEMEN WASHING

PBSt is a non-toxic buffer solution used for simple sperm washing. It is a water-based salt solution containing sodium chloride and potassium chloride. The ion concentration of the solution is similar (isosmotic) to the sperms and doesn't involve swelling / shrinkage of cells.

Procedure:

Dissolve each tablet of **PBS** in 200 ml of purified water to obtain the optimal concentration and pH for simple semen washing.

Recommendation:

Store **PBSt** at room temperature. **PBS** solution should be preserved at 4°C. Temperate the **PBS** solution at room temperature previous use.

Example from a simple sperm washing:

1. Centrifuge semen sample at 300g for 10 min
2. Remove supernatant with a pipette
3. Add the volume of **PBS** solution required for acquiring a sperm concentration from about 15M sperms/ml.

4. Homogenize gently (It's not recommended using Vortex for mixing since could damage sperm cells)

5. Repeat the entire process if the sample is so viscous or if the number of debris is elevated.

Packaging:

5 tablets in poly bottle

Product Specification:

One Tablet diluted in 200ml of deionized water contains 0.01M Phosphate buffer (0.0027M KCl and 0.137M NaCl). pH 7.4 at 25°C

Total Tablet Weight: 1814.5 - 2005.5 mg/tab

Appearance: White

Form: Round Tablet

Diameter: 5/8 inches

Dissolution Time ← 10.00 min

pH 7.20 - 7.60

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