



First for Pathology

A THERMO FISHER SCIENTIFIC COMPANY

Sperm Counting Solution

For In-Vitro Diagnostics
For Professional Use only

Sperm Counting Solution is a pre-mixed buffer solution containing formaldehyde fixative designed to be used for diluting sperm samples prior to cell counting through a hemocytometer.

Sample Preparation

When it is possible, it is recommended that the semen sample for counting to be obtained from the second ejaculate of the subject as to avoid overcrowding.

It is common that a healthy male semen sample to contain a very high sperm cell concentration. As such, to ensure accurate cell counting results, it is important to dilute the sample prior to the commencement of the cell counting procedure as outlined in the technical procedure below.

Warnings and Precautions

Please consult the SDS and packaging labels before use.

Ingredients

Chemical	CAS	Conc.
Sodium Bicarbonate	144-55-8	1-2%
Phosphate Salts	13472-35-0, 10028-24-7	<1%
Formaldehyde	50-00-0	<0.1%
Water	7732-18-5	Balance

Specifications

Appearance	Clear, colourless liquid
pH @ 20°C	7.2-7.8
Density @20°C	1.0-1.1

Stability

Sperm Counting Solution is stable for one year when stored in a sealed container at room temperature away from heat and light.

Technical Procedure

1. Prepare two clean 20mL containers to be used for 2-part dilution. One 1mL pipette and one

20µL pipette along with appropriate disposable tips.

2. First dilution (1:10): Pipette 1mL of raw semen sample into the first container followed by 9mL of the Sperm Counting Solution. Gently mix until homogeneous.
3. Second dilution (1:100): Pipette 1mL of the 1:10 solution into the second container followed by 9mL of the Sperm Counting Solution. Gently mix until homogeneous.
4. Pipette about 15-20µL of the sample into the hemocytometer counting chamber.
5. Wait 2-3 minutes for the sample to settle before commencing counting procedure under the microscope.

Notes

Never leave the cap open

Always dispense an adequate volume of fresh solution into a clean container just before use.

Do not return used solution to its original container as this may adversely affect the overall performance of the unused product.

References

World Health Organization; WHO Laboratory manual for the Examination and Processing of Human Semen; 5th Edition; 2010

Mundt, Lillian, Shanahan Kristy, Graffs Textbook of Routine Urinalysis and Body Fluids; LWW, 2nd Ed 2010

Ordering Information

Product	Size	Code
Sperm Counting Solution	500 mL	FH001/500
Sperm Counting Solution	2.5 L	FH001