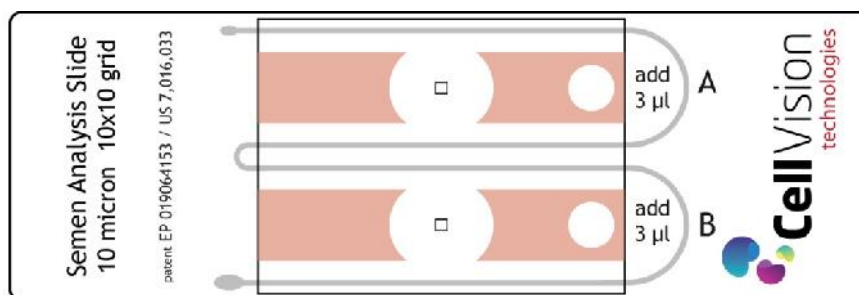
	<p>Semen Analysis Slide CV 1010-102 10 micron, Sperm Counting Grid</p>
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General Information:

The CellVision, Semen Analysis Slide, 10 micron with Sperm Counting Grid (SCG) is specially designed for the manual assessment of sperm parameters. The Semen Analysis Slide consist of 2 identical chambers both holding a SCG (total of 100 boxes, each box: 100 x 100 µm) and a motility-window close to the entrance.



Protocol:

1. Add 3 µl of fully liquefied and homogenised semen to entrance area A or B
2. The chamber will fill itself by capillary action for 80-90% resulting in an immediate steady view
3. After the chamber has filled, wipe away any surplus - if present - from the entrance area
4. Count all cells in (at least) 10 random boxes (*)
5. Determine the motility in the motility-window according to the WHO¹

Concentration Result:

The sperm count is the total number of cells counted in 10 boxes multiplied by 1 million per ml
Total analysis volume = $10 \times 0.1 \times 0.1 \times 0.01 = 0,000.001 \text{ mm}^2$

(*) WHO¹ recommendation: count at least 200 cells to obtain reliable results:

Protocol based on WHO recommendation:

Analyse as many boxes until more than 200 cells are counted. Divide the number of cells counted by the number of boxes analysed. Multiply this result by 10 to obtain the sperm count in millions per ml.

Motility Result:

Standard protocol to determine the motility percentages according to the WHO-manual.

- Class PR : moving actively, either linearly or in large circles, regardless of speed
- Class NP : all other patterns of motility with an absence of progression, e.g. swimming in small circles, the flagellar force hardly displacing the head, or when only a flagellar beat can be observed
- Class IM : no movement

¹ World Health Organisation, Laboratorium Manual for the Examination and Processing of Human Sperm, Fifth Edition, 2010, ISBN 978 92 4 154778 9