

PureSperm® 100

Trusted

PureSperm®100 is the original density gradient system. It promotes fertilization by removing the unnecessary detrimental factors, such as lymphocytes, epithelial cells, abnormal, immature and senescent sperm, cell debris, bacteria and seminal fluid.



Optimised for the preparation of density gradients for the separation and purification of human sperm, used in Assisted Reproduction Technologies (ART).

PureSperm® 100



Technical Information

PureSperm® consists of colloidal silica particles stabilised with covalently bound hydrophilic silane. The preparation is supplied in a sterile, isotonic, buffered salt solution containing glucose and EDTA.

Performance characteristics

pH	7.4 - 7.8
Osmolality (mOsm/kg H ₂ O)	300 - 310
Endotoxin levels (EU/mL)	<1.0
Human sperm survival 18 hours after density gradient preparation	>70%
Bottles and stoppers are M.E.A tested.	

Components

Silane-coated silica	Purified water
Potassium chloride	HEPES
Calcium chloride	EDTA
Sodium chloride	Glucose

Storage conditions and shelf life

Store unopened at ambient temperature for up to two years from production date. After opening under sterile conditions, store sealed at 2 to 8°C.

Ordering Information

Volume	Article No.
100mL	PS100-100
250mL	PS100-250
4x250mL	PS100-1000K



Documented

PureSperm®100 is the market leader and has been referred to in more than 150 publications.

PureSperm®100 diluted with PureSperm®Buffer forms an optimised system for the preparation of sperm for ART together with PureSperm®Wash.

Experience has shown that PureSperm®100 removes bacteria and sperm with damaged chromatin, important factors prior to ART.

PureSperm®100 can be stored at room temperature prior to opening.

24 months shelf life

Feature	Density Gradients	Swim-up
Separates motile sperm from other cell types	✓	✓
Separates out immature, aged and dying sperm	✓	✗
Separates out morphologically abnormal sperm	✓	✗
Separates out sperm with damaged chromatin	✓	✗
Removes bacteria and viruses	✓	✗



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