

The ingredients for your success: Quality, Security, Reliability

Designed to support sperm

Minitube extenders contain specific combinations of antioxidants, proteins, salts and sugars, buffering agents, antibiotics and proprietary compounds.

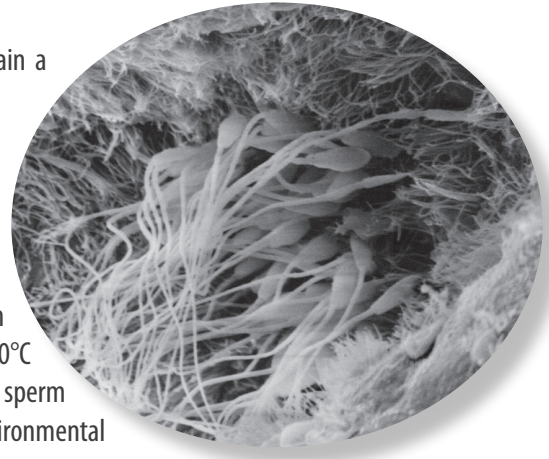
Antioxidants are important molecules that slow down or prevent oxidation, a biochemical process recognized as the major cause of sperm deterioration and death. Antioxidants are found naturally in seminal plasma and some have fertility enhancing properties. Minitube continuously researches the role of specific antioxidants in order to manufacture extenders with the most powerful and effective formulas available.

Buffers

Minitube long term extenders contain special buffering systems which are able to maintain a physiological pH level over a wide temperature range and long time span.

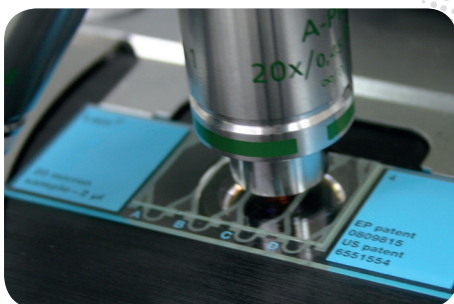
Antibiotics help to control bacterial growth from contamination that occurs during collection through processing. Minitube provides antibiotic formulations that comply with national and international regulations.

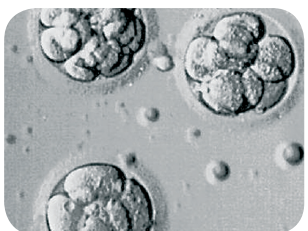
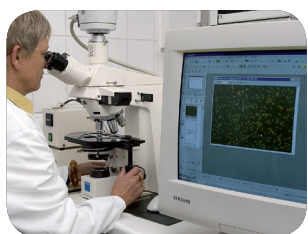
Cell Shield Protection (CSP®) is a proprietary additive in Minitube Plus extenders which provides unparalleled protection for sperm when exposed to temperature fluctuations from 10°C to 25°C. CSP® actively plays a role in membrane stabilization and protects against premature sperm capacitation. Minitube Plus extenders reduce adverse effects resulting from unpredictable environmental or handling conditions.



Your Benefits

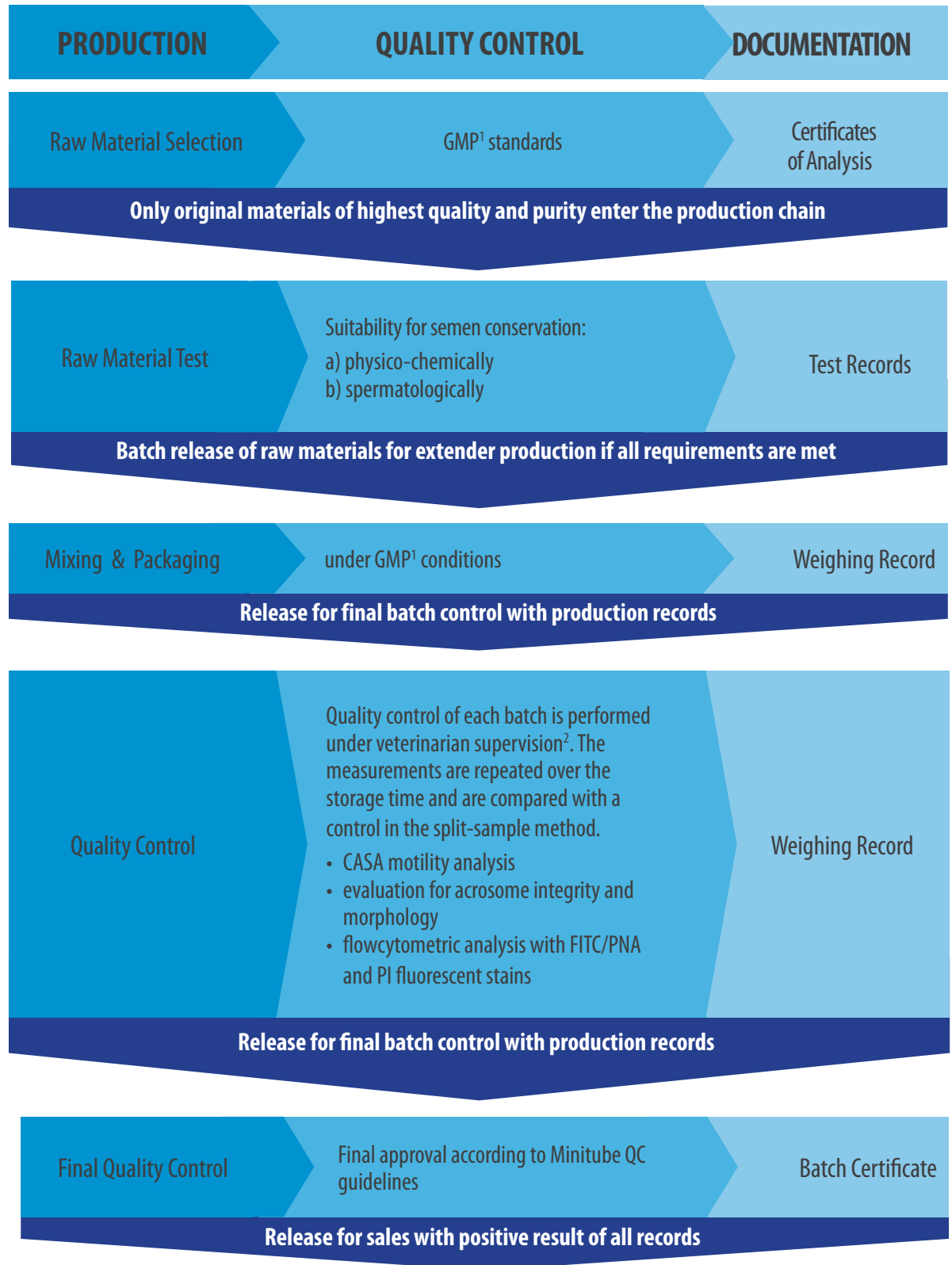
- Robust and reliable thanks to specific formulation
- Temperature stable during transportation and storage
- Convenient and userfriendly packaging
- Dissolves quickly
- Made in Germany





Why are Minitube extenders safer?

The consistently superior quality of Minitube extenders for the conservation of boar sperm is due to our strict quality control of all raw materials as well as the batch control of the end product. Each batch of the components and each batch of extender produced is examined physicochemically for purity and checked for semen conservation properties. Production steps comply with the rigorous GMP¹ standards. Our quality ensuring procedures and our complete documentation of all production steps guarantee for **safety, quality and reliability**.



(1) GMP means that the production methods meet the strict regulations of the so-called "Good Manufacturing Practice" guidelines. GMP demands considerably higher standards than the DIN ISO norms. Manufacturing procedures must be exactly described and documented at every level of production. Thus seamless tracing back of all our raw materials is assured.

(2) Veterinarian supervision of the University of Hannover over the maximum storage period for each extender.