

Kuhner's SB10-X: Orbital shaken benchtop bioreactor for single-use bags



The SB10-X is an orbital shaken benchtop bioreactor system for the cultivation of human, mammalian and plant cells in a single-use bag. It can be used in research, process development or as a pilot scale bioreactor. Special emphasis has been placed on developing a user-friendly vessel module. The vessel together with its bag can be easily detached by the user and carried to the clean bench. For the SB10-X, there are two vessel modules available with different working volumes. The standard module is a 10L-vessel module with a working volume of 4 to 12 L. The 3L-vessel module has a working volume of 1.5 to 4.5 L and is either available as an option in addition to the standard SB10-X or customers may purchase the SB10-X with the 3L-vessel only.

The cylindrical vessel accepts a single-use 3D bag. This bag requires no additional mixing device, enables quick set up times and eliminates elaborate cleaning and sterilising procedures. Various ports are incorporated to allow feeding, inoculation, harvesting, and sampling. The standard bag has built-in optical sensors for pH/DO allowing online measurement and control of pH and DO in the medium. Two other bag types are available: a basic single-use bag with no optical sensors and a perfusion bag for ATF and TFF perfusion.

The SB10-X fills the gap in the scale-up chain from commonly used single-use flasks all the way up to 50 L and 200 L bioreactors. The consistent hydrodynamics of shaken bioreactors provide reproducible cultivation conditions throughout the volume range. The culture from the SB10-X can serve as a preculture for Kuhner's SB50-X and SB200-X bioreactors.

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Link to product website: <https://kuhner.com/en/products/data/SB10-X.php>

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