CONSTANT SYSTEMS
CELL DISRUPTION MADE EASY

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MC Cell Disruptor



Yeast | E.coli | Mammalian/Insect Cells | Plant Cells



Did you know...

the whole Constant Systems range employs the same fixed orifice cell disruption process? Allowing seamless upgrade to increasing throughput demands. No need for further optimisation.

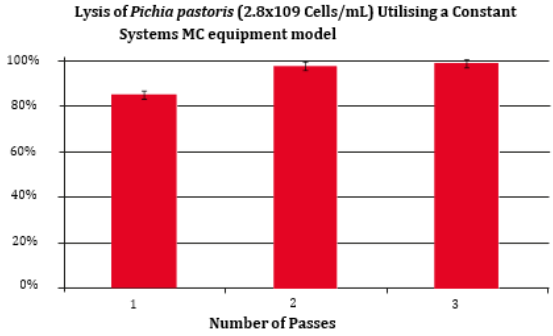
MC - Multicycle

The MC Cell Disruptor is the most versatile model for small volume processing offered by Constant Systems Limited. At approximately 500mm² the MC sits very comfortably on the benchtop and is best suited for processing small volumes, tissues, frozen pellets and highly viscous samples like the OS. However, with the MC you can process volumes from 500µL to 40mL per process and with a maximum of 80mL total. Ideal for those users who wish to upgrade from small bench-top techniques such as bead beating, sonication and expensive chemical lysis, which can introduce inconsistent sample integrity and lacks scalability.

Unique to the Constant Systems platform is the use of a fixed orifice cell disruption flow path which, together with predetermined optimal operating pressure, provides unmatched reproducibility for the entire research group – in most cases with a one touch single pass. All platforms are truly press go and walk away. No issues with air locks. The system knows when the process is complete.

The MC model can be utilised in three modes: Single Cycle (SC), Multi Cycle (MC) and Re Cycle (RC) for processing your samples.

- SC Mode is a single cycle process and can be utilised to process 500µL - 8mL volumes of all sample types whether fluid, solid, frozen, tissue or plant.
- MC Mode can be utilised to process greater than 8mL volumes up to 40mL in each process and then a further 40mL so 80mL in total. In MC mode all sample types that are fluid and resuspended can be processed.
- RC Mode enables multiple passes of the same sample (fluid or re-suspended) without collecting and reintroducing the sample repeatedly. RC mode is best utilised for tough organisms such as G+/_ bacteria, yeasts, fungi, algae and even diatoms.



- Digital display and control of performance parameters with strict control between 10-40Ksi
- Accommodating cold workflows using Stainless-Steel processing cups, retaining sample temperatures during processing.
- Fully closed processing to protect the sample (clean processing or for O2 sensitive organisms/enzymes)
- Simple, inline cleaning with industry standard reagents (EtOH, NaOH, Virkon). Component parts can also be autoclaved.

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