



**DURAN
WHEATON
KIMBLE**

Excellence in your hands

WHEATON® CELLine™ Bioreactors

Multiuse Membrane Culture Flasks
for Antibody and Protein Production

CELLine™ Bioreactor Flasks

Handling Requirements – CELLine™ flasks reduce the handling requirement by requiring less consumable items and allowing longer run times due to their unique metabolite regulating upper membrane. This membrane allows for bulk media storage during operation to ensure constant and regulated nutrient access for the cells.

Cell Densities – CELLine™ flasks ensure maximum gas exchange by placing the gas permeable lower membrane directly next to the cells. This allows for optimal oxygen and carbon dioxide transfer for metabolizing cells.

Purification – The upper and lower membranes form an optimized compartment for cell proliferation. This allows for the reduced use of growth factors and hormones and concentrates the antibody and proteins of interest.



BENEFITS

- Multi-harvest device
- Decreases use of consumables
- High cell density and high product concentration
- Cost-efficient, space saving, and stackable
- Reduces operation time
- No additional equipment required for operation

WHEATON® CELLine™ Bioreactors

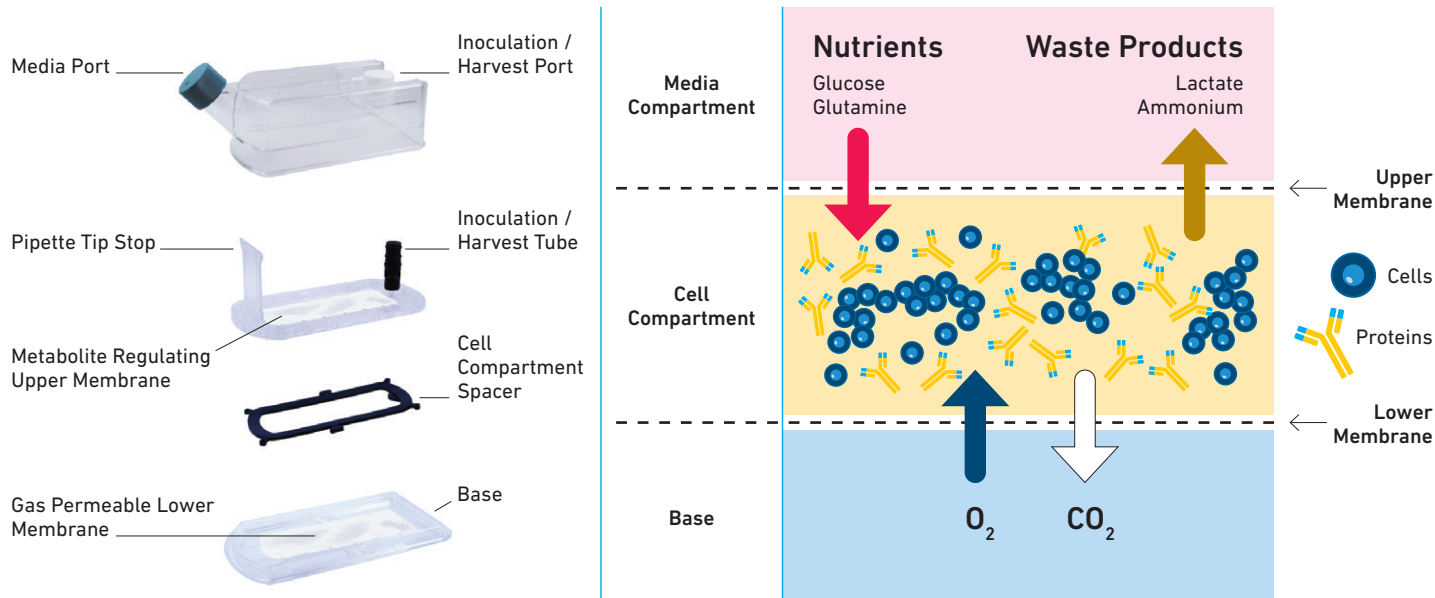
How does the CELLine™ Flask work?

Media Compartment – The media compartment allows for bulk storage of cell culture growth medium. This reduces the media refreshing requirement significantly as the media compartment is fifty times the size of the cell compartment.

Metabolite Regulating Upper Membrane – The upper dialysis membrane has a 10 kDa cut off limit. This regulates the flow of metabolites to and from the cell compartment and retains all proteins in the cell compartment.

Cell Compartment – The cell compartment provides the ideal area to inoculate and achieve high density cultures. The compartment concentrates cells, their products, and limits the requirement for any exogenous growth factors.

Gas Permeable Lower Membrane – With static cultures, gas transfer rates can be the limiting factor in high density cultures. The CELLine™ flask places the cells directly against the gas permeable membrane to achieve optimal levels of oxygen and carbon dioxide.



ORDERING INFORMATION

Cat. No.	Flask Type	Culture Type	Media (mL) Compartment	Cell (mL) Compartment	Qty/ Case
WCL1000-1	CELLine™ 1000	Suspension	1000	15	1
WCL1000-3	CELLine™ 1000	Suspension	1000	15	3
WCL1000AD-1	CELLine™ 1000-AD	Adherent	1000	15	1
WCL1000AD-3	CELLine™ 1000-AD	Adherent	1000	15	3
WCL0350-1	CELLine™ 350	Suspension	350	5	1
WCL0350-5	CELLine™ 350	Suspension	350	5	5

ADDITIONAL INFORMATION

Seeding and Harvesting Densities	CELLine™ 350	CELLine™ 1000
Preculture (Viable Cells)	7.5×10^6	22.5×10^6
Inoculation Volume (mL)	5	15
Inoculation Concentration (Viable Cells/mL)	1.5×10^6	1.5×10^6
Harvesting Concentration (Viable Cells/mL)	$20-40 \times 10^6$	$20-40 \times 10^6$
Titer (mg/mL)	1-10	1-10
Antibody Yield per Month (mg)	20-200	60-600



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