

Quantifying the Cost of Media & Buffer Manufacturing: On-Demand vs. Traditional vs. Outsourced

A comparison of three approaches to media and buffer supply demonstrates that on-demand manufacturing with the Krakatoa® K500 (pod-based) can significantly lower total acquisition cost by reducing transportation, storage, excess inventory, manual preparation, and associated labor requirements.

Krakatoa® K500

On-demand manufacturing at point-of-use with automated production, inline monitoring, and minimal operator involvement

Manual Preparation

Internal preparation using tanks, mixing systems, cleanroom space, operators, QA review

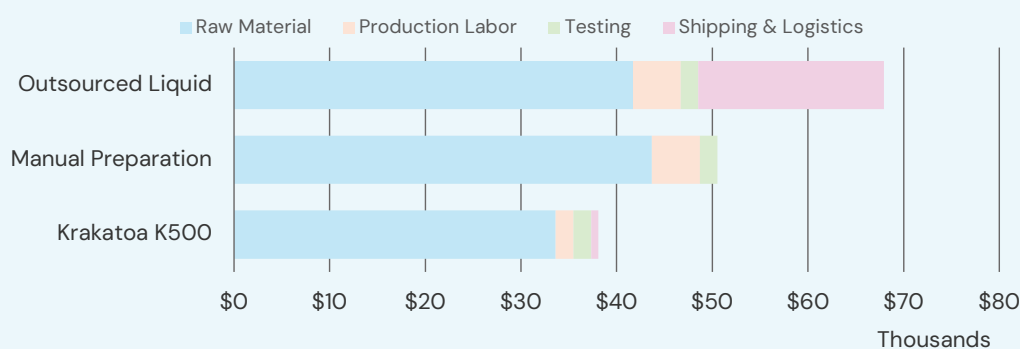
Outsourced Liquid

Purchase pre-made liquid media and buffers, ship to facility, store, inventory management

Example Scenario

Manufacture and receipt of 500 liters of supplemented IMDM in 20 liter bags vs. on-site production (Boston, MA)

Total Media Acquisition Cost Comparison



Savings Per Manufacturing Run

vs. Manual Preparation

up to **25%**

vs. Outsourced Liquid

up to **44%**

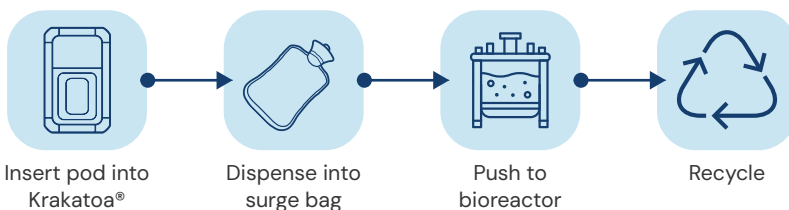
Total Price | Krakatoa® K500: \$38,091 (\$76/L) | Manual Preparation: \$50,544 (\$101/L) | Outsourced Liquid: \$67,921 (\$136/L)

A Complex Manufacturing Model, Simplified

Manual Preparation



Krakatoa® K500



Operational Benefits



Reduce costs by up to 44% with Krakatoa® K500