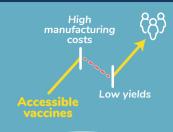
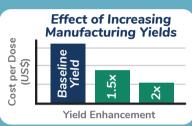
Sustainability and Savings in Vaccine Manufacturing: A Bioprocess Modelling Case Study



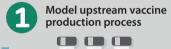






A 1.5-fold increase in yield decreases cost per dose by 33%!

Case Study: Upstream Vaccine Production





Set a target demand of vaccine doses per year



Increase upstream yield by multi-fold







Case Study Results	Baseline process	Multi-f Case A	old enhar Case B	cement Case C
Upstream Cost/Dose (USD)	\$8.39	\$5.60	\$4.54	\$3.65
Annual Batch Cost Savings	0%	33%	46%	57%
Annual Plastics Waste (kg)	124	83	67	54

Optimizing your process leads to:







VSE™ Technology Reduces Upstream Vaccine Manufacturing Costs



- Virica's Viral Sensitizer technology (VSEs™) are small molecules that boost upstream viral yields by curbing antiviral defences
- VSEs[™] boost manufacturing yields across a wide range of substrates and cell lines

• virica

For more information, please contact us at info@viricabiotech.com