

# Microbial Process Development Solutions

Our team offers tremendous experience in microbial-based process development and clinical and commercial manufacturing, with most critical SME's having an average tenure of 15+ years at the Adelaide site.

## Microbial Offerings

Our approach to process development emphasizes Quality by Design from the outset. We work closely with our clients to fully understand the concept product and establish a Quality Target Product Profile (QTPP). From the profile, we develop a process and a control strategy, to ensure our client's product and process can be relied upon to be robust, stable, and suitably designed for future scale-up. Our manufacturing processes utilize fully enclosed, single-use systems for both buffers and process intermediates, which helps ensure sanitary conditions throughout manufacturing.

Our state-of-the-art facility offers development and manufacturing equipment to seamlessly scale up from laboratory bench to commercial production scale.

BioCina's knowledge and experience of partnering with our clients from pre-clinical development to commercial production ensures we are capable of navigating your journey to approval.

## Microbial Manufacturing Process



## Microbial Development and Manufacturing Scales

Stage	Equipment	Working Volume	Yield
Process Development	2 L Fermenter x 8	400 mL — 1 L	.5 — 5 g per L
Scale-Up	30 L SS Fermenter	6 — 20 L	
cGMP Manufacturing	435 L SUB Fermenter 750 L SS Fermenter	65 — 300 L 200 — 500 L	
	2,000 L SS Fermenter	1,400 — 1,600 L	

## Typical Microbial Development and Manufacturing Timelines

