

MassBiologics



**Contract Product Development & Manufacturing Services
supporting pre-clinical through commercial programs**



MassBiologics

Developing Scalable Processes

- ▶ Mammalian cell line development
 - CHO, NS0, HEK293
- ▶ Upstream process development
 - 1L, 10L & 60L stirred tank bioreactors
- ▶ Downstream process development
 - Akta, BioRad & Seperagen chromatography systems
- ▶ Formulation development
- ▶ Analytical Method Development



cGMP Manufacturing & Support Services

- ▶ Mammalian cell culture 55L, 500L & 2500L bioreactors
- ▶ Clinical and Commercial Scale Aseptic Filling
 - Clinical lots sizes as small as a few 100 vials
 - Commercial lots up to 250,000 vials
- ▶ Full QC analytical support for in-process and release testing
- ▶ ICH conforming stability testing
- ▶ Consulting Services:
 - Translational Product Development
 - Commercialization
 - Regulatory
 - Clinical



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