



**Bacterial
culture**

48 hours at strain-
optimal conditions

*Remove cells
and debris*



**Culture
supernatant**

~100 mL

>100 mL

*Concentrate
Large volumes
(100 KDa MWCO)*

**Ultra-
filtration**

*Optional:
Additional
concentration*

**Tangential
Flow
Filtration
(TFF)**

*Isolate
EVs*

**Size-exclusion
Chromatography
(SEC)**

