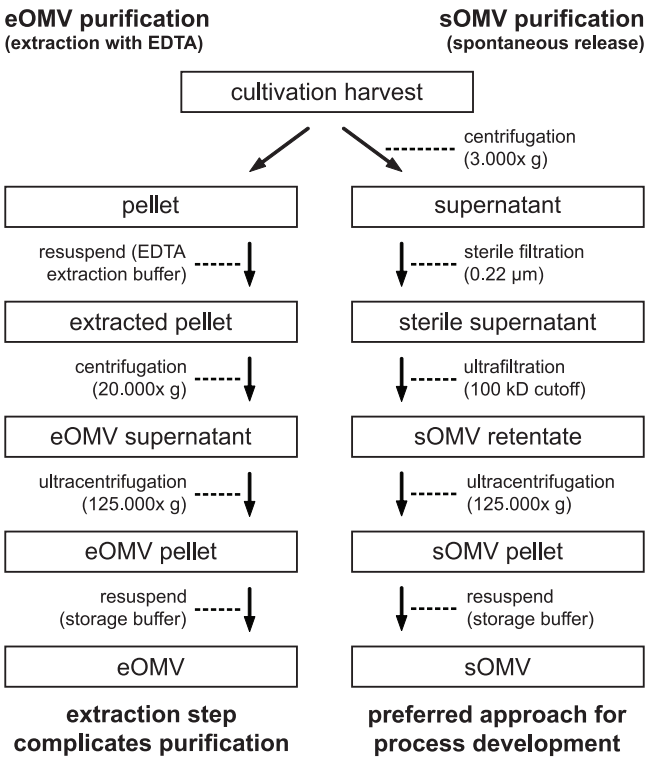
eOMV purification
(extraction with EDTA)
sOMV purification
(spontaneous release)
cultivation harvest
centrifugation
(3.000x g)
pellet
supernatant
resuspend (EDTA
extraction buffer)
sterile filtration
(0.22 µm)
extracted pellet
sterile supernatant
centrifugation
(20.000x g)
ultrafiltration
(100 kD cutoff)
eOMV supernatant
sOMV retentate
ultracentrifugation
(125.000x g)
ultracentrifugation
(125.000x g)
eOMV pellet
sOMV pellet
resuspend
(storage buffer)
resuspend
(storage buffer)
eOMV
sOMV
extraction step
complicates purification
preferred approach for
process development