

| Decellularization Reagents | Total time for completion | Model System | Reference |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|--------------------------|
| 0.0035% Triton X-100 DNase 0.01% sodium deoxycholate 0.05% sodium deoxycholate 0.1% sodium deoxycholate 0.5% Triton X-100 | 16 hours 35 minutes | Whole lung, or individual lobes | Balestrini et al. (2015) |
| 0.1% sodium dodecyl sulfate, 1% Triton X-100 | Perfusion time is determined by color and translucency of lung (average ~ 3 days) | Whole lung | Gilpin et al. (2014) |
| 2% sodium dodecyl sulfate 1% sodium dodecyl sulfate | 7 days | Whole lung | Nichols et al. (2013) |
| Protocol 1: 1.8 mM sodium dodecyl sulfate Protocol 2: 8 mM CHAPS | 8 hours 35 minutes | Slices | O'Neill et al. (2013) |
| 3% Tween-20 4% sodium deoxycholate 0.1% peracetic acid | 5 hours 15 minutes | Slices | O'Neill et al. (2013) |
| 0.1% Triton X-100 2% sodium deoxycholate DNase | 24 hours | Whole lung | Price et al. (2015) |
| 0.1% Triton-X 2% sodium deoxycholate DNase 0.1% peracetic acid | 3 days | Lobes | Wagner et al. (2014) |

Supplemental Table 2: A comparison of our protocol and previously published decellularization methods.