

Table S1. The tissue processing procedure in two laboratories.

| Reagent | Lab1 Processor | | | Lab2 Processor | | |
|--------------|--------------------------|----------------|-------------|--------------------------|----------------|-------------|
| | Incubated Time (sec/run) | Number of runs | Temperature | Incubated Time (sec/run) | Number of runs | Temperature |
| Formalin | 30 | 2 | Ambient | N/A | N/A | N/A |
| 70% EtOH | 60 | 1 | 30°C | 1 | 1 | Ambient |
| | | | | 20 | 1 | Ambient |
| 80% EtOH | 60 | 1 | 30°C | 20 | 1 | Ambient |
| 95% EtOH | 60 | 1 | 30°C | 20 | 2 | Ambient |
| 100% EtOH | 60 | 3 | 30°C | 20 | 2 | Ambient |
| Xylene | 40 | 3 | 30°C | 20 | 2 | Ambient |
| Paraffin Wax | 40 | 3 | 60°C | 20 | 3 | 60°C |

EtOH: ethanol. N/A: not applicable.

In Lab1, the reagents used were Alcohol (Decon Laboratories), Histology Grade Xylene (Fisher), and Paraplast (Fisher). Formalin was made with 37% Formaldehyde (Fisher), Sodium Phosphate Monobasic anhydrous (MP laboratories), and Sodium Phosphate Dibasic, anhydrous (Fisher).

In Lab2, the reagents used were NBF 10% buffered (Fisher), Ethanol (Fisher), Histology Grade Xylene (Fisher), and Paraffin Type9 (Fisher).