

Microwave Fixation for in situ and LMPC

Power Setting: 55

Microwave MRA BP-111-RS

Always use same solution for sample and probe

For "hot water" bath use electric teakettle at lowest setting

Always use molton wax, not chips

| Solution | Sample Temp | Water Bath | Time |
|---|-------------|------------|--------------|
| Fix | 37C | ice | 15 min |
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| Depending of EtOH conc of Fix 30%, 50% and/or 70% EtOH | 67C | RT | 1.2 min each |

May store in 70% EtOH at 4C

| | | | |
|--|-----|-----------|---------|
| 95% EtOH | 67C | RT | 1.2 min |
| 100% EtOH | 67C | RT | 1.2 min |
| 100% EtOH | 67C | RT | 1.2 min |
| 100%EtOH:citrisolve (50:50) | 67C | RT | 1.5 min |
| 100% citrisolve | 67C | RT | 1.5 min |
| Do not vacuum citrisolve:Paraplast X-tra (50:50) | 67C | hot water | 10 min |
| Paraplast X-tra | 67C | hot water | 10 min |
| Vacuum 2-3 min before microwaving Paraplast X-tra | 67C | hot water | 30 min |
| May store in 100% Paraplast Xtra in 62C oven overnight Repeat 30 min Paraplast Xtra step for a total of 5x | | | |

Ready to Embed (put into 62C oven until ready)

| | | | |
|--|-----|--|-------|
| Clean temp probe!!! citrisolve | 67C | | 5 min |
|--|-----|--|-------|

10 mM Sorenson's Buffer, pH= 7.2

2.8 ml 0.2M NaH₂PO₄

7.2 ml 0.2M Na₂HPO₄

190 ml DEPC water

FAA

25 ml 100% EtOH

5 ml Formalin

2.5 ml glacial acetic acid

17.5 ml DEPC water

EAA (Farmer's Fixative)

75 ml 100% EtOH

25ml g. acetic acid