

Microwave Protocol for Electron Microscopy

STEP	Description	user prompt	time (hr:min:sec)	Watts	Temp	Repetitions	Vacuum
1	OSMIUM	ON	00:13:00 ¹	100	60	1	CYCLE
2	RINSE	ON	0:00:40	150	60	2	OFF
3	UA	ON	00:06:00 ²	100	60	1	CYCLE
4	50% ETOH	ON	0:00:40	150	60	1	OFF
5	75% ETOH	ON	0:00:40	150	60	1	OFF
6	95% ETOH	ON	0:00:40	150	60	1	OFF
7	100% ETOH	ON	0:00:40	150	60	2	OFF
8	PROPYLENE OXIDE	ON	0:00:40	150	60	1	OFF
9	1:1 PO/RESIN	ON	0:03:00	150	60	1	CYCLE
10	100% RESIN	ON	0:03:00	150	60	3	CYCLE
* IF TISSUE IS HAND CUT OR THICKER THAN 100um CONTINUE WITH THE FOLLOWING STEPS							
11	100% RESIN	ON	0:03:00	150	60	2	CYCLE
<p>place tissue in molds or flat embed using ACLAR films place in 60° C overnight.</p> <p><i>if using for post embedding immunoreactivity do not leave in the oven longer than 20hrs</i></p> <p>² 3 MIN WATTS ON / 2 MIN WATTS OFF / 3 MIN WATTS ON / 2 MIN WATTS OFF / 3 MIN WATTS ON</p> <p>³ 2 MIN WATTS ON / 2 MIN WATTS OFF / 2 MIN WATTS ON</p>							

Solutions:

Osmium: 1:1 of 2% Osmium Tetroxide in H₂O to 3% Potassium Ferricyanide in H₂O

Uranyl Acetate (UA): 0.5% Uranyl Acetate in H₂O