

TEM Sample Preparation

Steps	Chemicals	Temperature	Time
1	2.5% glutaraldehyde/0.1M buffer (pH 7.3) + 1% tannic acid	0 - 4°C	1 h
2	0.1 M buffer with 5% sucrose	0 - 4°C	15 min
3	0.1 M buffer with 5% sucrose	0 - 4°C	15 min
4	1% osmium tetroxide/0.1 M buffer	4°C → RT	1 h
5	0.1 M buffer with 5% sucrose	RT	15 min
6	0.1 M buffer with 5% sucrose	RT	15 min
7	2% uranyl acetate/milli-Q water (en block staining)	RT	1-2 h
8	50% ethanol	RT	10 min
9	70% ethanol	RT	10 min
10	80% ethanol	RT	10 min
11	90% ethanol	RT	10 min
12	95% ethanol	RT	10 min
13	100% ethanol	RT	15 min
14	100% ethanol	RT	15 min
15	100% acetone	RT	15 min
16	100% acetone	RT	15 min
17	100% acetone/Spurr's resin 1:1	RT	30-60 min
18	100% acetone/Spurr's resin 1:3	RT	30-60 min
19	100% Spurr's resin	RT	1-3 h
20	100% Spurr's resin	RT	1-3 h
21	embedding (label with pencil)	RT	
22	polymerization	60-70°C	24 (8-48) h