

SEM 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	50% ethanol	RT	10 min
8	70% ethanol	RT	10 min
9	80% ethanol	RT	10 min
10	90% ethanol	RT	10 min
11	95% ethanol	RT	10 min
12	100% ethanol	RT	15 min
13	100% ethanol	RT	15 min
14	100% acetone	RT	15 min
15	100% acetone	RT	15 min

*大部分生物樣品於脫水後仍需進行臨界點乾燥及鍍金，相關服務需求請洽電子顯微鏡室。