SEM sample preparation

dry specimen — No → **hydrated specimen** — No → specimen with organic solvent may not work

dry specimen — Yes

hydrated specimen — Yes

mount specimen[1] → *SEM* low vac BSE

chemical fixation → additional fixation → dehydration e.g., ethanol

dehydration e.g., ethanol → air dry / chemical drying e.g., HMDS / CPD[1]

air dry, chemical drying e.g., HMDS, CPD[1] → mount specimen[1]

mount specimen[1] → sputter coating[1]

mount specimen[1] → *SEM* low vac BSE
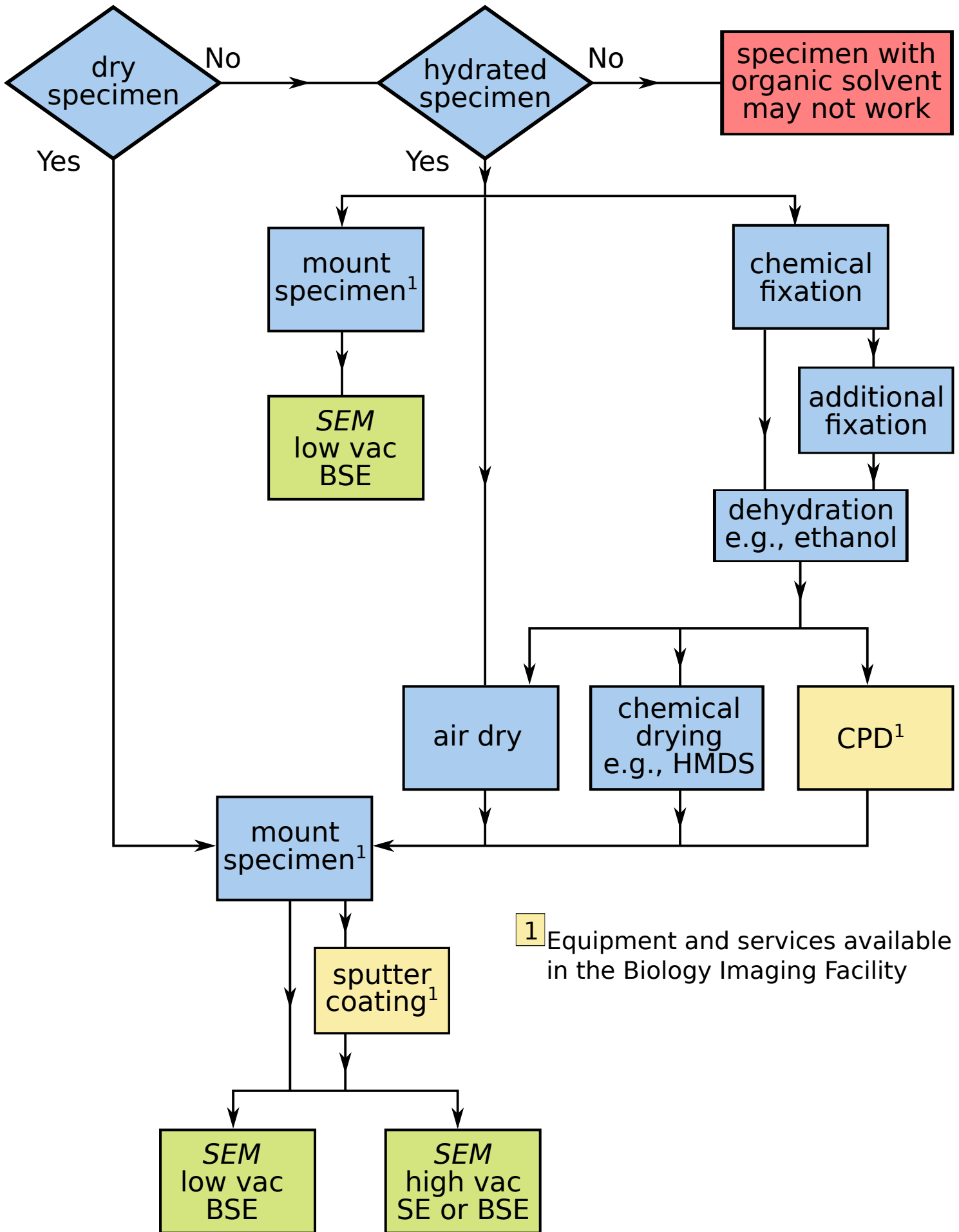
sputter coating[1] → *SEM* high vac SE or BSE

[1] Equipment and services available in the Biology Imaging Facility