COOMASSIE STAIN WITH AI2(SO4)3 FOR MASS-SPEC

(reference: Kang et al., 2002, Bull. Korean Chem. Society 23:11 p1511-12.)

MATERIALS:

EthOH

Acetic Acid

AI2(SO4)3H3PO4 stock solution

102g Al2(SO4)3*18H2O (Sigma 227617)

22.2 ml 85% H3PO4 (sigma 215104)

miliQ H2O

Dissolve Al2(SO4)3 in ~700ml H2O, add acid, bring to 1L and filter 0.45um.

2% Coomassie Blue G250 stock

G250 (Biorad 161-0406)

miliQ H2O

Add 1g G250 to 50ml H2O, heat gently with stirring to help dissolve.

Protocol:

- 1. Fix gels: 25% EtOH 7% Acetiv Acid in H2O ~20min RT°.
- 2. Make stain fresh in a clean bottle or conical, adding ingredients in the listed order. Stain only long enough to see bands.
 - a. 90ml Al2(SO4)3
 - b. 1ml G250 Coomassie
 - c. Mix a and b and then add 10ml EtOH 100% and mix quickly.
- 3. Destain in 7% acetic acid in H2O