

DNA Staining with Chromomycin A3

- Base pair (G-C) specific stain for DNA
 - Cells must be permeabilized or fixed
 - Argon laser 457nm line used with FITC emission filter
 - No RNase needed
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REAGENT LIST:

-Chromomycin Staining solution:

Chromomycin A3 (Sigma C2659)	1.0mg
PBS	50ml
MgCl *6H2O	150mg

-80% Ethanol

PROTOCOL:

Fixation:

1. Wash cells out of media 2x in ice cold PBS
2. Resuspend pellet in 1ml cold PBS - 1 x 10E6
3. Fix cells by adding the 1ml cell suspension dropwise to 1ml ice cold 80% ETOH while constantly vortexing.
4. Fixed cells may be stored in the refrigerator for up to 2 weeks before staining and analysis.

Staining:

1. Wash cells out of ETOH 2x with PBS.
 2. Resuspend pellet in 0.5ml Chromomycin A3 solution.
 3. Cells are ready for analysis after 30 minutes staining (on ice, in the dark)
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TIPS:

1. Chromomycin dissolves best in cold (4 C) PBS.
 2. Refrigerated staining solution is good for 2 weeks.
 3. Staining solution can be aliquoted and frozen at -70.
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