PAS STAINING OF DIFFERENTIATED HEPATOCYTES

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1. Culture cells in 24-well plate.
2. Fix cells with 4% paraformaldehyde (PFA) for 10 min at room temperature (RT), then wash cells with ddH2O
3. Cover cells with 0.5% Periodic Acid Solution(400-500ul/well) for 5 min at RT
4. Rinse cells with ddH2O for 2-3 min
5. cover cells with Schiff's solution (400-500ul/well) for 15 min at RT (You can check purple color under microscope)
6. Wash cells in tap water for 2-3 min
7. counterstain in Hematoxylin solution for 1-2 min
8. Rinse with tap water until no more brown water
9. option: Blue in 1%NH4OH for a few seconds, wash with tap water
10. take picture under microscope (no phase contrast)

NOTE:

You could stain Hematoxylin for less than 1 min, then rinse cell and check nucleus, if needed, restain cells for longer time, strong nucleus staining would cover the purple color in cytoplasm).