## **PAS Staining**

## (Periodic Acid Schiff Staining for Mucin)

(Sigma Cat# 375810)

0.25g dissolved in 50mL MilliQ water → 0.5% PA Solution

Schiff's Reagent (Sigma Cat# 3952016-500mL)

\*Light sensitive! Store at 4C, warm to room temp before use\*

Hematoxylin Solution (Gill No.3; Sigma Cat# GHS316-500mL)

## Process Takes ~ 2 hours

1. Deparaffinize and hydrate paraffin embedded sections:

Histoclear 2x 5mins  $\rightarrow$  100%EtOH 2x 3mins  $\rightarrow$  95%EtOH 2x 3mins  $\rightarrow$  70%EtOH 2x mins  $\rightarrow$  MQ Water 2x 3mins

- 2. Place slides in Coplin jar with 0.5% PA solution, 10mins, RT, bench top
- 3. Pour off PA solution (keep protected from light, 4C, can be re-used 4-6x)
- 4. Rinse slides in Coplin jar 3x in MQ water 1 min each
- 5. Add Schiff's Reagent for 15mins (with lid on), RT, bench top
- 6. Remove Schiff's (can keep and re-use 4-6x, store at 4C in plastic 50mL foil-covered tube)
- 7. Wash slides in running tap water (slightly warm), for 10 mins (can transfer slides to black rack and use bucket for tap water wash steps)
- 8. Counterstain slides by moving rack from water to Hematoxylin (Gill No.3) in bucket for 30sec (important! Be quick and have a fresh tap water filled bucket waiting to prevent over-staining)

(Pour Hematoxylin back into stock bottle for re-use – stable at RT for 1yr. protected from light)

- 9. Rinse slides in running (slightly warm) tap water for 5mins
- 10. Dehydrate, and clear → mount

70%EtOH 2x mins  $\rightarrow$  95%EtOH 2x 3mins  $\rightarrow$  100%EtOH 2x 3mins  $\rightarrow$  Histoclear 2x 5mins  $\rightarrow$  Permount mounting media; allow to dry 2hrs at RT before imaging