

# Colorimetric PBG Assay (Ehrlich)

## COLORIMETRIC PORPHOBILINOGEN ASSAY (EHRlich)

### Modified Ehrlich Reagent

1. Dissolve 1.0 gm p-dimethyl aminobenzaldehyde in 30mL glacial acetic acid.
2. Add 8.0 mL 70% perchloric acid.
3. Bring to 50 mL with glacial acetic acid.
4. Store in the dark at 4°C for about 2 weeks.

### Porphobilinogen (PBG) Assay

1. Mix 2.0mL sample with 2.0mL fresh modified Ehrlich reagent.
2. Measure absorbance at 555nm.

### Standard PBG

1. Prepare 0.54mg/mL (2.2mM) PBG stock in 0.1M Tris pH 7.65.
2. (Store at -20°C until needed.)
3. Dilute 1:1000 in H<sub>2</sub>O.
4. Mix 2mL with 2mL fresh modified Erlich reagent.
5. Measure absorbance at 555nm.
  - 1mM PBG = 61 abs units at A555.

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