

COLORIMETRIC PORPHOBILINOGEN ASSAY (EHRlich)

Modified Ehrlich Reagent

Dissolve 1.0 gm p-dimethyl aminobenzaldehyde in 30mL glacial acetic acid.

Add 8.0 mL 70% perchloric acid.

Bring to 50 mL with glacial acetic acid.

Store in the dark at 4 °C for about 2 weeks.

Porphobilinogen (PBG) Assay

Mix 2.0mL sample with 2.0mL fresh modified Ehrlich reagent.

Measure absorbance at 555nm.

Standard PBG

Prepare 0.54mg/mL (2.2mM) PBG stock in 0.1M Tris pH 7.65.

(Store at -20 °C until needed.)

Dilute 1:1000 in H₂O.

Mix 2mL with 2mL fresh modified Erlich reagent.

Measure absorbance at 555nm.

1mM PBG = 61 abs units at A555.