## PORPHOBILINOGEN DEAMINASE (PBGD)

## PBGD Assay

Add 10µL homogenized sample to 75µL 10µM dithiothreitol in 0.1M Tris pH 7.65.

Perform subsequent steps in the dark until addition of HCI.

Add 15 µL 2.2mM PBG (porphobilinogen) in 0.1M Tris pH7.65.

Incubate in a 37°C water bath for 30 min.

Stop the reaction with 100µL 3M HCI.

Expose the mixture to UV light for 30 min or ambient light for 2h to oxidize all porphyrinogen formed.

Centrifuge at 16000xg for 10 min. Collect the supernatant.

Quantify the resulting porphyrins by UPLC (ultra performance liquid chromatography).

For blanks use samples inactivated in boiling water for 10 min or live samples at 0 min incubation with PBG.