

# DXP Assay

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Measure concentration of DXP with a substrate-limiting reaction

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Dilute 1mg of DXP in 500uL DI H<sub>2</sub>O and make 50uL aliquots.

Mix 5uL of DXP stock solution with 95uL of DI H<sub>2</sub>O to make 1:19 DXP solution

40uL 1.0M triethonamine-HCl buffer (pH7.5)

3uL 1.0M DTT

4uL 1.0M MgCl<sub>2</sub>

5uL DXP solution

5uL 10mM NADPH

>2ug DXR

DIH<sub>2</sub>O to 1000uL

Mix all components except DXR and incubate at room temperature for 5 minutes. Set the spectrophotometer to amplification = 20, chart recorder speed = 20cm/hr, filter = 0.5s, signals A and B = 0.940 (between 0.8 and 1.0). Add DXR to initiate the reaction, after obtaining a steady baseline.