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An assay procedure for Neurospora malate deydrogenase

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An assay procedure for Neurospora malate deydrogenase Abstract An assay procedure for Neurospora malate deydrogenase		

	Monkies, R. D. An assay procedure for 14eorospord	interrospora indiate denyarogenase (MDH, L-majate; NAD
	ma ate dehydrogenase.	oxidoreductase, E.C. No. 1, 1, 1, 37) is conveniently assayed
		in the reverse reaction:
		L-malate + NAD+ ==== oxaloacetate + NADH + H+,
by continuous spectrophotometric recording of the oxidation of NADH at 340 mu. (Munkres and Richards 1965 Arch. B		
	Biophys. 109: 457).	•
	Stock solutions: (A) potassium phosphate buffer, 0.111	M, pH 7.4. Equilibrate at 25°C; (b) oxaloacetate (M.W. 132),
	0.012 M, pH 7.4. Dissolve 8 mg of oxaloacetic acid in 5 ml o	cold phosphate buffer A. Store at 4°C. Discard after 5 days.
	(C) NADH (NADH 2H2O, F.W. 696, Sigma Grade 111, 98°	%). Dissolve 7.10 mg in 5 ml cold distilled water (2 \times 10 ⁻³ M).
	Store at 4°C. Discard after 5 days. (D) sodium phosphate, 0.0	
	Assay procedure: To 0.85 ml of A in a microcuvette of 1 cr	m lightpath, add 0.05 ml each of B and C and equilibrate in a
	thermoregulated (25°C) sample chamber of a spectrophotometer	for at least one minute. A matched cuvette containing water
		should be about 0.650. Enzyme (diluted at least 5 min prior to

assay in buffer D) is added (0.05 ml) to the sample cuvette, the cuvette is inverted with a Parafilm cover, and the change in

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Munkres K D An assay procedure for Neurospora