

12), suggesting that the Neurospora OAT is "non-mitochondrial". The results reported in this communication, however, show that the enzyme is present in the freshly prepared mitochondria of Neurospora.

Ept.	No.	Preparation	OAT activity (mg/ml)	there experiments. The mitochondria were isolated and purified by the procedure described elsewhere (Küntzel and Schäfer 1971 Nature New Biol. 231: 265). The puri- fied mitochondria were suspended in AMT-sucrose, which is composed of 0.44 M sucrose containing 100 mM NH4Cl, 10 mM MgCl ₂ and 10 mhl Tris-HCl (pH 7.5). The assay of OAT was &formed according to Jenkins and Tsai (1970 Methods in Enzymology 17A; 281), except that 10 up of Lubrol WX were included in the assay mixture (final vol-
I		Purified mitochondria suspension (32 mg/ml AMT-sucrose)	232	
П		Post-mitochondrial supernatant *	69	
111		Mitochondrial pellet, resuspended •	* 212	
• Same as Exp. I, but mitochondria removed by centrifugation at 1200 x g for 10 min. ** Mitochondriol pellet from Exp. II was resuspend ed in the same volume of AMT-sucrose.				
vity d	uring	overnight storage at 5°C. Whereas	the present results ore	the sense that it lores more than 50% of the initial acti- consistent with those obtained from mammalian systems, action of Neurospora is authentic or is on artifact due to

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