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Decreased activity of all tryptophan biosynthetic enzymes due to zinc deficiency

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Abstract

Decreased activity of all tryptophan biosynthetic enzymes due to zinc deficiency

Carsiotis, M. and A. Meyers. Decreased activity of all tryptophan biosynthetic enzymes due to zinc deficiency.

decreased two- to five-fold when zinc is omitted from the growth medium (Vogel's Medium N). The effect is more marked in a histidine mutant than in the wild type. An explanation of this effect is being sought currently. * * * Department of Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio.

A reinvestigation of the effect of zinc deficiency noted by Nason et al. (1951 J. Biol. Chem. 188:397) has revealed that all enzymes of the tryptophan biosynthetic pathway are