Mutant C-84 (hist-1) of N. crassa produces Carsiotis, M. and A. Lacy. Tryptophan elevated levels of tryptophan synthetase synthetase levels in hist-l mutants. (Hogness and Mitchell, J. Gen. Microbiol. 11. 401 (1952)). The equivalent mutant of S. typhimurium has been found to produce normal levels of tryptophan synthetase.