

Table 1. Maltose-binding test in crude shock fluid from cells grown in glycerol or maltose

	Experiment 1		Experiment 2	
	Maltose grown cells	Glycerol grown cells	Maltose grown cells	Glycerol grown cells
Total protein concentration ^a [mg/ml]	0.95	1.16	1.16	1.65
$\frac{[PL]}{[L]}$	2.1	0.2	3.3	0.2
	2.9 } 2.2	0.3 } 0.26	3.1 } 3.4	0.3 } 0.26
	1.6 }	0.3 }	3.9 }	0.3 }
MBP concentration [μ M]	7.2	1.0	12.1	1.0
[mg/ml] ^b	0.29	0.04	0.49	0.04
% of the total protein in the crude shock fluid	30.6	3.6	42	2.4
Number of MBP molecules released per cell ^c	22300	1500	24000	1100

^a Total protein concentration was determined in the concentrated shock fluid by the method of Lowry et al. (1951)

^b The concentration of maltose-binding protein in the crude shock fluid was calculated from the binding assay, using a molecular weight of 40000 (Kellerman and Szmelcman, 1974)

^c The number of maltose-binding protein molecules released per cell was calculated from the total amount of maltose-binding protein released and the number of cells present in the culture from which the protein was isolated