



FIG. 1. Buffering powers of extracellular (B_0 ; \blacktriangle), intracellular (B_I , \bullet), and total space (B_T , \blacksquare), of a suspension of *S. aureus*. Cells were harvested in exponential phase and allowed to equilibrate at a cell density of 0.83 mg/ml in sucrose-choline chloride-potassium chloride buffer as described in Materials and Methods. B_0 was determined from the instantaneous change in pH on addition of anaerobic HCl. B_T was determined from the change in pH on addition of HCl to cells treated with valinomycin and TCS (2 μ g/ml each). B_I is the difference between B_0 and B_T .