

TABLE 5

DNA per clone-forming unit (CFU)

DNA content μg DNA/ml. culture	Titer 10^{10} CFU/ml.	DNA content 10^{-16} g DNA/CFU	Molecular weight DNA/CFU
3.7	2.1	1.7	102×10^6
3.7	1.6	2.3	138×10^6
7.4†	5.0	1.5	90×10^6
14.8†	2.2	6.7	402×10^6
2.0	0.28	7.1	426×10^6
2.6	2.2	1.2	72×10^6

Mass per clone-forming unit: 1600 ml. of culture contained 103×10^{-3} g dry weight of cells and 1.0×10^{10} CFU/ml. which gives a mass of 6.4×10^{-15} g/CFU. Based on 4% DNA this gives 2.6×10^{-16} g DNA/CFU or a molecular weight of DNA of 156×10^6 .

† Not measured directly but extrapolated from growth curve.