

TABLE 2. Summary of measured and calculated cell cycle parameters for *B. subtilis* SG38 at different growth rates

Cell cycle parameter	Culture medium			
	S	TS	CH	CHG
Generation time (min)	73	58	40	30
Avg cell length (μm)	2.2	3.1	3.6	4.5
Avg cell width (μm) ^a	0.81 (0.093)	0.83 (0.077)	0.86 (0.072)	0.81 (0.075)
Avg DNA content/ cell (G) ^b				
Microscopic	1.6	2.6	2.9 ^c	3.3
Chemical	1.5	2.3	ND ^e	3.1
C period (min)	58	53	50	52
Birth				
Length (μm)	1.6	2.2	2.6	3.0
DNA content (G)	1.3	1.7	2.0	2.3
Initiation of DNA replication				
Length (μm)	2.8	2.7	4.8	4.4
Time (min)	58	19	37	17
DNA content (G)	2	2	3.6	3.2
L_i (μm) ^f	1.4	1.4	1.3	1.1
Termination of DNA replication				
Length (μm)	2.4	2.6	2.9	3.7
Time (min)	43	14	7	9
DNA content (G)	2	2	2.4	2.8
D* period (min)	30	34	34	21
Nucleoid separation				
Length (μm)	3.0	3.0	3.0	3.7
Time (min)	63	26	9	10
DNA content (G)	2.2	2.3	2.5	2.9
Nucleoid bilobation				
Length (μm)	2.6	2.3	4.1 ^d	4.8 ^d
Time (min)	49	2.6	26 ^d	21 ^d
DNA content (G)	2.0	1.8	3.2 ^d	3.5 ^d

^a Values in parentheses are standard deviations.

^b G, the DNA content of a single completed chromosome.

^c Data from reference 15.

^d Transition from binucleate to binucleate bilobed state.

^e ND, not done.

^f Cell length per copy of *oriC*.

15. Hauser, P. M., and J. Errington. 1995. Characterization of cell cycle events during the onset of sporulation in *Bacillus subtilis*. *J. Bacteriol.* 177:3923–3931.