

1 **Supplementary data for manuscript**

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3 *“Enhancement of Surfactin yield by improving the medium composition and*
4 *fermentation process”*

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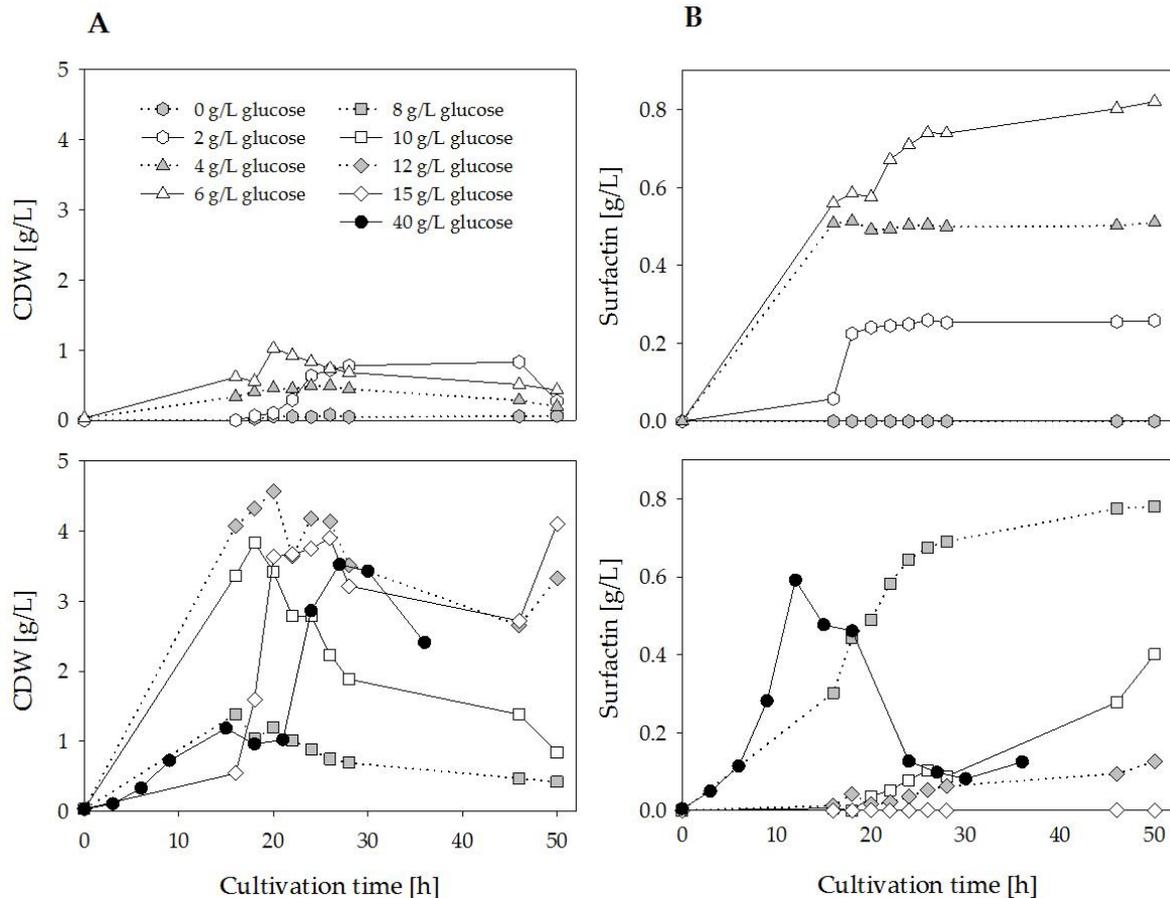
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28 **Figure S1 Time course of CDW and Surfactin concentrations of shake flask**

29 **cultivations of *B. subtilis* DSM 10^T applying various glucose concentrations**

30 Cultivations in shake flasks were conducted employing 0 g/L (*grey hexagon*), 2 g/L

31 (*white hexagon*), 4 g/L (*grey triangle*), 6 g/L (*white triangle*), 8 g/L (*grey square*),

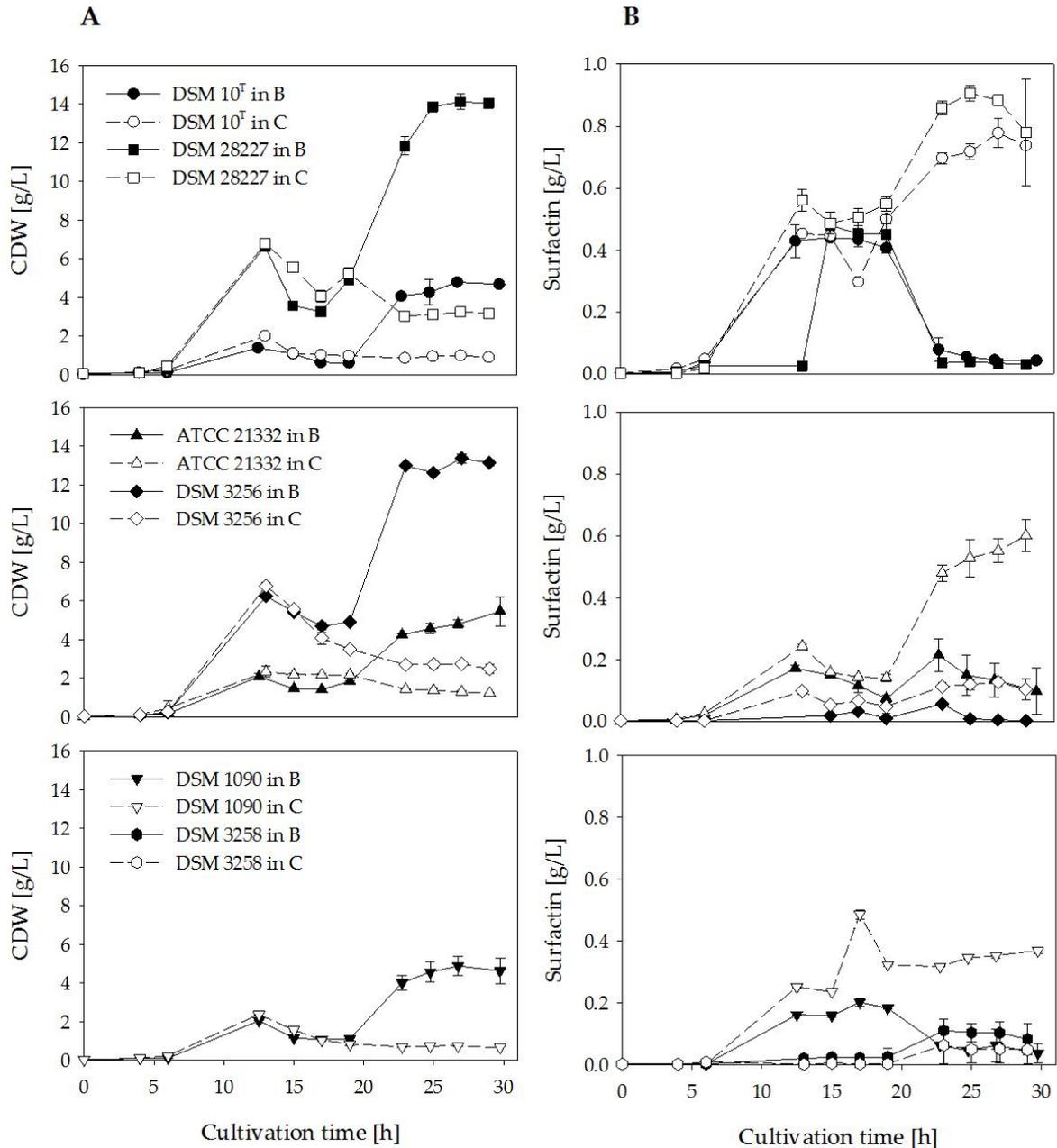
32 10 g/L (*white square*), 12 g/L (*grey rhombus*) and 15 g/L (*white rhombus*) glucose.

33 Data from earlier experiments employing the original 40 g/L are shown as *black dots*.

34 The achieved CDW [g/L] is illustrated in **A**, the reached Surfactin concentration [g/L]

35 is displayed in **B**. Shake flask experiments were conducted in duplicates and time-

36 displaced flasks to illustrate a continuous course of CDW and Surfactin concentration



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38 **Figure S2 Time course of CDW and Surfactin concentration of various *Bacillus***
 39 **strains cultivated in medium B and further optimized medium C** In summary, six
 40 different Surfactin producers DSM 10^T (*dot*), DSM 28227 (*square*), ATCC 21332
 41 (*regular triangle*), DSM 3256 (*rhombus*), DSM 1090 (*triangle upside down*) and
 42 DSM 3258 (*hexagon*) were cultivated in medium B (illustrated in *black*) and further
 43 optimized medium C (displayed in *white*). The results of achieved CDW [g/L] are
 44 shown in **A** (the pelleted growth of DSM 3258 did not allow a determination of the

45 OD₆₀₀ absorption), whereas Surfactin concentrations [g/L] are illustrated in **B**. All
46 experiments were conducted as duplicates and in time-displaced shake flasks to
47 present continuous courses of CDW and Surfactin concentration

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