Transcriptome analysis documents induced competence of Bacillus subtilis during nitrogen limiting conditions - DTU Orbit (09/01/2019)

**Transcriptome analysis documents induced competence of Bacillus subtilis during nitrogen limiting conditions**

DNA microarrays were used to analyze the changes in gene expression in Bacillus subtilis strain 168 when nitrogen limiting (glutamate) and nitrogen excess (ammonium plus glutamate) growth conditions were compared. Among more than 100 genes that were significantly induced during nitrogen starvation we detected the comG, comF, comE, nin-nucA and comK transcription units together with recA. DNA was added to B. subtilis grown in minimal medium with glutamate as the sole nitrogen source and it was demonstrated that the cells were competent. Based on these observations we propose a simplification of previously designed one-step transformation procedures for B. subtilis strain 168.

**General information**
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