TABLE S1. Summary of performed physiological experiments with denitrifying strain EbN1. Tested concentrations of aromatic solvents and their effect on growth rate and maximum optical density in alkylbenzene- and succinate-utilizing cultures are displayed. Determined semiinhibitory (about 50% growth inhibition) concentrations are highlighted in grey.

| | Alkylbe | enzene-u | tilizing c | ultures | | | Succir | nate-uti | lizing cu | ltures a | fter expo | sure to | a | |
|---|---|---|---|-------------------------------------|---|-------------------------------------|--|---|--|--|--|---|---|---|
| Solvent concentration | Ethylb | enzene | Tolu | iene | Ethylbo | enzene | Tolu | iene | p-Cı | esol | Phe | nol | Solvent | mixture |
| [mM] | μ ^b (h ⁻¹) | OD° | μ ^b (h ⁻¹) | OD ^e | μ ^b (h ⁻¹) | OD° | μ ^b (h ⁻¹) | OD ^c | μ ^b (h ⁻¹) | OD ^c | μ ^b (h ⁻¹) | OD° | μ ^b (h ⁻¹) | OD ^c |
| Ethylbenzene ^d 0.02 0.08 0.21 0.32 0.40 0.48 | 0.009 0.017 0.012 0.007 0.004 0.001 | 0.34 0.35 0.30 0.21 0.32 0.11 | l | | | | | | | | | | | |
| Toluene ^d 0.07 0.24 0.74 0.86 | | | 0.012 0.015 0.003 0.001 | 0.33 0.32 0.35 0.10 | | | | | | | | | | |
| Ethylbenzene ^e 0.3 0.4 0.5 0.6 | | | | | 0.035 0.038 0.016 0.004 | 0.50 0.45 0.33 0.21 | | | | | | | | |
| <u>Toluene</u> ^e 0.7 1.0 1.2 1.5 3.0 | | | | | | | 0.038 0.025 0.014 0.008 0.000 | 0.51 0.34 0.31 0.26 0.13 | l | | | | | |
| <u>p-Cresol</u> ^e 2.0 2.5 3.0 3.5 4.0 | | | | | | | | | 0.035 0.031 0.026 0.015 0.002 | 0.40 0.39 0.33 0.24 0.2 | l | | | |
| Phenol ^e 5.0 6.0 6.5 7.0 8.0 | | | | | | | | | | | 0.034 0.027 0.022 0.015 0.003 | 0.57 0.44 0.38 0.29 0.21 | | |
| Solvent mixture ^f 1.9 2.5 2.6 2.7 2.9 3.0 | | | | | | | | | | | | | 0.025 0.019 0.017 0.014 0.003 0.001 | 0.39 0.35 0.33 0.30 0.24 0.19 |

^a Succinate-adapted, actively growing cultures of strain EbN1 were shocked with ethylbenzene, toluene, p-cresol or phenol as single solvents and with a mixture of these four during early linear growth. The growth rate of untreated, succinate-utilizing cultures was essentially constant (0.053 h⁻¹). The maximum optical density varied around an average of 0.51. ^b The growth rate corresponds to the slope in the linear range of monitored time courses of growth.

^c OD refers to the maximum optical density (at 660 nm) at the transition into stationary growth phase (alkylbenzene-utilizing cells) or at the end of the incubation time (succinate-utilizing cells).

Equilibrium concentrations of the alkylbenzenes in the culture medium, while supplied in an HMN carrier phase. Ethylbenzene: 0.02 mM = 0.5% (v/v); 0.08 mM = 2.0% (v/v); 0.21 mM = 5.0% (v/v); 0.32 mM = 8.0% (v/v) and 0.48 mM = 12% (v/v). Toluene: 0.07 mM = 0.5% (v/v); 0.24 mM = 2.0% (v/v); 0.74 mM = 5.5% (v/v) and 0.86 mM = 6.0% (v/v).

^e Concentration of single solvents in the culture medium. ^f The indicated concentrations refer to the total solvent concentration in the culture medium containing ethylbenzene, toluene, *p*-cresol and phenol.

TABLE S2. Fold changes in abundance of identified proteins during anaerobic growth of strain EbN1 with low and semi-inhibitory concentrations of ethylbenzene and toluene.

| | | | Ethylbenzene [mM] ^c | | Toluene [mM] ^c | |
|---------------------------|---|--------------------|-----------------------------------|-------------------|------------------------------|------|
| Protein name ^a | Predicted function ^a | Score ^b | 0.08 ^d | 0.32 ^d | 0.07 ^e | 0.74 |
| Denitrification/Resp | iration | | | | | |
| NirS | Cytochrome <i>cd1</i> nitrite reductase precursor | 328 | -1.3 | 3.0 | -2.3 | 3.2 |
| FdhA (EbA2936) | Formate dehydrogenase, α-subunit | 117 | 1.2 | 1.6 | 1.1 | 4.0 |
| UbiE | Ubiquinone/menaquinone biosynthesis methyltransferase | 90 | 2.5 | 1.1 | 1.2 | 1.4 |
| Ethylbenzene degrad | lation pathway | | | | | |
| EbdA | Ethylbenzene dehydrogenase, α-subunit | 43 | 2.1 | -1.3 | 1.1 | 2.7 |
| EbdB | Ethylbenzene dehydrogenase, β-subunit | 285 | 1.4 | -1.1 | 1.3 | 3.6 |
| EbdC | Ethylbenzene dehydrogenase, γ-subunit | 89 | 1.2 | 1.1 | -1.1 | 2.8 |
| EbdD | Ethylbenzene dehydrogenase, chaperone | n.d. | -1.4 | -1.8 | -1.3 | 1.3 |
| C1A68 | Hypothetical protein, related to ethylbenzene degradation | 292 | 1.2 | -1.1 | 1.0 | 3.0 |
| C1A84 | Hypothetical protein, related to ethylbenzene degradation | n.d. | -2.1 | 1.6 | -1.3 | 3.6 |
| Bal | Benzoylacetate CoA-ligase | n.d. | 1.1 | -2.3 | -1.1 | 1.8 |
| Apc1 | Acetophenone carboxylase, subunit 1 | n.d. | -1.1 | -2.4 | -1.0 | 1.7 |
| Apc3 | Acetophenone carboxylase, subunit 3 | n.d. | 1.1 | -1.9 | -1.1 | 1.6 |
| Apc4 | Acetophenone carboxylase, subunit 4 | n.d. | -1.1 | -1.6 | 1.5 | 1.8 |
| Apc5 | Acetophenone carboxylase, subunit 5 | n.d. | -1.6 | -1.4 | -1.2 | 2.0 |
| Toluene degradation | pathway | | | | | |
| BssA | Benzylsuccinate synthase, α -subunit | 297 | 1.7 | 1.6 | 1.0 | 3.3 |
| BssE | Benzylsuccinate synthase, chaperone | 237 | 1.2 | 2.0 | -1.4 | 3.1 |
| C2A200 | Hypothetical protein, related to toluene degradation | 239 | 1.2 | 1.8 | 1.0 | 2.8 |
| BbsH | Phenylitaconyl-CoA hydratase | n.d. | 1.0 | -1.3 | -1.3 | -1.1 |
| BbsG | (<i>R</i>)-Benzylsuccinyl-CoA dehydrogenase | n.d. | 1.2 | -1.0 | 1.1 | 1.5 |
| BbsF | Succinyl-CoA:(<i>R</i>)-benzylsuccinat CoA-transferase, subunit | n.d. | 1.9 | 2.0 | 1.0 | 1.7 |
| BbsD | 2-[Hydroxy(phenyl)methyl]-succinyl-CoA dehydrogenase, subunit | n.d. | -1.1 | -1.3 | -1.3 | -2.4 |
| BbsC | 2-[Hydroxy(phenyl)methyl]-succinyl-CoA dehydrogenase, subunit | n.d. | 1.4 | -1.7 | -1.2 | -2.2 |
| BbsB | Benzoylsuccinyl-CoA thiolase, β -subunit | n.d. | 1.2 | 1.1 | -1.3 | -1.1 |
| BbsA | Benzoylsuccinyl-CoA thiolase, α-subunit | n.d. | -1.1 | 1.0 | -1.2 | -1.1 |
| EbA1932 | Hypothetical protein, related to toluene degradation | n.d. | 1.4 | -1.0 | -1.1 | -1.1 |
| EbA1936 | Hypothetical protein, related to toluene degradation | n.d. | 1.2 | 1.6 | -1.5 | 1.2 |
| BcrA | Benzoyl-CoA reductase, α-subunit | 275 | 1.3 | -1.7 | -1.2 | -3.7 |
| BcrB | Benzoyl-CoA reductase, β-subunit | 369 | 1.5 | -3.1 | 1.0 | -2.9 |
| Polyhydroxyalkanoa | te synthesis | | | | | |
| PhbB | Acetoacetyl-CoA reductase | 128 | 1.3 | 1.3 | 1.2 | 3.1 |
| PhaC | Putative poly(3-hydroxyalkanoate) synthase | 121 | 1.1 | 1.0 | 1.5 | 3.5 |
| EbA1323 | Conserved hypothetical protein, predicted phasin family | 155 | -2.1 | 5.7 | -1.5 | 5.5 |
| EbA6852 | Probable phasin | 126 | -7.6 | 4.0 | -1.2 | 27.4 |
| EbA5033 | Hypothetical protein, probable phasin | 87 | 2.4 | 5.4 | 2.6 | 6.6 |
| Stress-related protein | 15 | | | | | |
| SodB | Superoxide dismutase (Fe) | 95 | -2.2 | 1.6 | 1.1 | 2.8 |
| EbA1861 | Putative high affinity Fe^{2+} transporter | 71 | 1.3 | -9.9 | 2.2 | -37. |
| EbA4918 | Putative periplasmic iron binding protein of ABC Fe3+ transporter | 275 | 1.1 | -2.6 | 1.3 | -4.5 |
| AcnA | Aconitase A | 194 | 1.0 | 2.1 | 1.1 | 5.9 |
| AcnA2 | Aconitase A | 222 | -1.3 | 1.8 | -1.1 | 4.5 |
| BetB | Putative betaine aldehyde dehydrogenase (BADH) oxidoreductase protein | 190 | -2.0 | 2.3 | -1.7 | 3.5 |
| WrbA (EbA2303) | Flavoprotein, TrpR enhancer | 85 | -1.8 | 2.4 | -1.1 | 5.8 |
| AldB | Putative aldehyde dehydrogenase | 73 | 1.1 | -1.0 | 1.2 | 4.0 |
| AdhB | Alcohol dehydrogenase II | 96 | 1.0 | 1.1 | -1.0 | 4.9 |
| GabD | Succinate-semialdehyde dehydrogenase | 146 | -1.3 | 1.1 | 1.3 | 2.6 |
| Metabolism | | | | | | |
| AcsA | Acetyl-CoA synthase | 299 | 1.4 | 2.0 | -1.1 | 4.6 |
| EbA6506 | Acyl-CoA dehydrogenase | 386 | -1.3 | 1.4 | -1.2 | 2.5 |
| EbA6075 | Predicted short chain dehydrogenase | 176 | -3.5 | 1.7 | -2.8 | 2.4 |
| EbA6736 | Probable oxidoreductase | 145 | -1.3 | 2.4 | -1.2 | 4.6 |
| EbA2755 | ABC-transporter, periplasmic component | 145 | 1.1 | -1.0 | -1.2 | -2.6 |
| Fatty acid synthesis | | | | | | |
| AccD | Putative acetyl-CoA carboxylase carboxyl transferase, β-subunit | 158 | -1.1 | -1.3 | 1.1 | -2.5 |
| | | 107 | 1.0 | -1.6 | -1.1 | -2.9 |
| BioB | Biotin synthase protein | 107 | 1.0 | -1.0 | -1.1 | -4- |

| HisA | 1-5-(Phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]- imidazole-4-carboxamide isomerase | 87 | -1.1 | 1.8 | 1.2 | 2.5 |
|-------------------|--|----------|---------|------|------|------|
| Transcription, tr | anslation, regulation | | | | | |
| RplI | 50S ribosomal protein L9 | 193 | 1.2 | -1.6 | -1.1 | -2.7 |
| RplY | 50S ribosomal protein | 89 | -1.0 | -1.8 | -1.2 | -2.7 |
| RplA | 50S ribosomal protein | 276 | 2.6 | -1.4 | 1.2 | 1.0 |
| RplF | 50S ribosomal protein | 209 | 3.0 | -1.2 | 1.3 | -1.9 |
| RpsB | 30S ribosomal protein S2 | 154 | 1.3 | -1.5 | -1.1 | -2.5 |
| Tsf | Elongation factor Ts | 288 | -1.1 | -1.7 | -1.2 | -3.1 |
| PrkA | Protein kinase | 254 | -1.8 | 1.7 | -1.1 | 3.4 |
| GntR | Transcriptional regulator | 84 | -1.1 | 1.6 | -1.1 | 3.5 |
| Tnp17 | Transposase IS4 family | 81 | 2.2 | -1.3 | 1.1 | 2.6 |
| P2A352 | Probable pyridoxamin 5'-phosphate oxidase | 123 | 1.0 | -1.4 | 1.1 | -2.8 |
| Unknown, conse | erved proteins | | | | | |
| EbA1694 | Conserved hypothetical protein | 56 | -2.2 | 5.1 | -1.2 | 14.3 |
| EbA5146 | Conserved hypothetical protein | 124 | -2.5 | 3.6 | -1.3 | 6.6 |
| EbA3069 | Conserved hypothetical protein | 96 | -1.5 | 2.1 | -1.0 | 2.5 |
| EbA6073 | Conserved hypothetical protein | 141 | -2.6 | 1.5 | -2.1 | 1.8 |
| EbA5028 | Conserved hypothetical protein | 136 | 1.1 | -1.8 | -1.1 | -2.5 |
| Unknown, uniqu | ie proteins | | | | | |
| EbA7011 | Hypothetical protein | 107 | -2.6 | 6.7 | -1.0 | 66.4 |
| EbA2155 | Hypothetical protein | 116 | 1.1 | 6.7 | -1.0 | 16.0 |
| EbA6953 | Hypothetical protein, probable apolipoprotein A/E/C3 | 288 | -1.6 | 7.4 | -1.1 | 9.5 |
| EbA3088 | Hypothetical protein | 108 | -1.1 | 2.9 | -1.1 | 4.4 |
| EbA1597 | Hypothetical protein | 52 | -1.8 | 1.7 | 1.1 | 2.8 |
| | | | | | | |
| | < -10 -10 to -2.5 -2.5 to 2.5 | 2.5 to 5 | 5 to 20 | | > 20 | |

^a Protein name and function as published by Rabus et al. (35). Proteins may fit in more than one group.

^b Score of MS-based identification as calculated using Mascot. The Mascot score was averaged for proteins identified from several protein spots. n.d., not determined in this study. Protein assignment was based on co-detection of previously identified proteins (28).

 $^{\circ}$ Fold changes in abundance were determined with 2D DIGE. Protein extracts from cultures growing with $^{d}0.21$ mM ethylbenzene or $^{\circ}0.24$ mM toluene served as reference state. Proteins with fold changes > 2.5 are green-colored and proteins with < -2.5 are red-colored, respectively.

TABLE S3. Fold changes in abundance of identified proteins from succinate-utilizing cells of strain EbN1 either shocked with ethylbenzene and toluene, or without addition of the alkylbenzenes.

| | | Score ^b | Succinate-utilizing cells shocked with | | | | | | | |
|------------------------------|--|--------------------|--|-------------------|-------------------|----------------------------------|-------------------|-------------------|-------------------|-------------------|
| Protein name ^a | Predicted function ^a | | Ethylbenzene ^c (0.5 mM) | | | Toluene ^c (1.2 mM) | | | No- addition | |
| | | | 45' ^d | 250' ^d | 600' ^d | 45' ^d | 250' ^d | 600' ^d | 250' ^d | 600' ^d |
| Stress-related | d proteins | | | | | | | | | |
| HtpG | Heat shock protein | 142 | 2.3 | 2.6 | 2.3 | 2.2 | 1.9 | 1.9 | -1.1 | 1.1 |
| EbB88 | Putative heat shock protein | 103 | 2.8 | 3.3 | 3.0 | 2.8 | 2.1 | 2.4 | 1.4 | 1.7 |
| ClpB | Chaperone | 148 | 2.9 | 3.6 | 3.8 | 2.4 | 2.0 | 2.3 | 1.2 | 1.5 |
| WbjB | Similar to polysaccharide biosynthesis protein | 90 | 6.5 | 4.5 | 1.9 | 4.4 | 2.0 | 1.9 | 1.2 | 1.1 |
| KatA | Catalase | 150 | 1.8 | 2.5 | 2.5 | 1.7 | 1.4 | 1.8 | 4.0 | 3.9 |
| Denitrificatio | <u>on</u> | | | | | | | | | |
| NirS | Cytochrome cd1 nitrite reductase precursor | 205 | 2.0 | 2.3 | 1.8 | 2.1 | 1.9 | 1.7 | 5.7 | 5.9 |
| NosZ | Nitrous-oxide reductase precursor | 270 | 4.1 | 5.1 | 11.2 | 4.8 | 5.2 | 7.5 | -1.0 | 1.3 |
| Metabolism | | | | | | | | | | |
| AcsA | Acetyl-CoA synthetase | 56 | 2.1 | 3.0 | 4.1 | 1.7 | 1.7 | 2.4 | -1.6 | -1.2 |
| BcrA | Benzoyl-CoA reductase subunit | 62 | -1.4 | -1.9 | -2.2 | -1.6 | -3.0 | -4.3 | -1.6 | -1.6 |
| AceE | Pyruvate dehydrogenase multienzyme complex, E1 component | 266 | 1.1 | -1.1 | -1.2 | -1.0 | -1.5 | -1.4 | -4.5 | -1.9 |
| BzdV | Subunit of oxidoreductase of unknown function, conserved in "Aromatoleum"-type benzoate degradation gene clusters | 131 | 1.0 | -1.1 | -1.3 | -1.1 | -1.4 | -1.2 | -3.4 | -1.8 |
| SucB | 2-Oxoglutarate dehydrogenase complex, dihydrolipoamide succinyltransferase | 74 | -2.4 | -2.7 | -2.8 | -2.5 | -2.6 | -2.8 | -2.5 | -2.3 |
| РрсК | Phosphoenolpyruvate carboxykinase | 211 | 1.4 | 1.3 | 1.2 | 1.2 | -1.2 | -1.3 | -3.4 | -1.3 |
| Sulfur assimi | ilation | | | | | | | | | |
| CysP | Periplasmic thiosulfate-binding protein | 118 | -4.2 | -4.2 | -6.3 | -4.2 | -4.8 | -7.3 | -3.2 | -3.2 |
| CysD | Putative ATP sulfurylase small subunit | 120 | -3.3 | -2.9 | -2.7 | -2.8 | -3.3 | -3.2 | -3.0 | -3.1 |
| CysN | ATP sulfurylase large subunit | 126 | -3.8 | -4.0 | -4.5 | -3.8 | -4.5 | -5.1 | -4.5 | -4.0 |
| CysH | APS-reductase | 179 | -4.7 | -5.2 | -5.6 | -4.0 | -4.5 | -4.8 | -4.0 | -3.9 |
| Proteins with | n unknown function | | | | | | | | | |
| EbA2621 | Conserved hypothetical protein | 54 | -1.6 | -1.6 | -1.7 | -1.5 | -1.6 | -1.5 | -2.9 | -2.4 |
| EbA3357 | Hypothetical protein | 54 | 1.1 | 1.7 | 1.7 | 1.2 | 1.0 | 1.2 | 3.1 | 3.4 |
| EbA4221 | Hypothetical protein | 63 | 2.4 | 2.7 | 1.6 | 2.3 | 2.4 | 1.6 | 2.1 | 2.2 |
| | < -2.5 | -2.5 to 2.5 | | 2.5 to 5 | >5 | 5 | | | | |
| | | 2.0 10 2.0 | | | | | | | | |

^a Protein name and function as published by Rabus *et al.* (35). Proteins may fit in more than one group.

^b Score of MS-based identification as calculated using Mascot. The Mascot score was averaged for proteins identified from several protein spots.

^c Fold changes in abundance were determined with 2D DIGE. Protein extracts from succinate-utilizing cultures harvested 45 min after addition of the alkylbenzenes to the test cultures served as reference state. Proteins with fold changes > 2.5 are green-colored and proteins with <-2.5 are red-colored, respectively.

^d Time after addition of the alkylbenzenes to the test cultures.

TABLE S4. Fold changes in abundance of identified proteins from succinate-utilizing cultures of strain EbN1 shocked with semi-inhibitory concentrations of *p*-cresol, phenol or the solvent mixture.

| Protein name ^a | | Score ^b | p-Cresol ^c | | Phenol ^e | | Solvent mixture ^c (2.7 mM ^d) | |
|------------------------------|---|--------------------|-----------------------|--------------------------|---------------------|--------------------------|---|---------------------------|
| | Predicted function ^a | | (3.0) 45'e | mM) 250' ^e | (6.5 45'° | mM) 250' ^e | (2.7 1 45'e | mM ^a) 250" |
| Denitrificati | 00 | | -10 | 200 | -10 | 200 | -10 | 200 |
| NirS | Cytochrome <i>cd1</i> nitrite reductase precursor | 238 | 1.2 | 1.7 | -1.4 | 1.1 | 1.7 | 3.0 |
| NorQ | Putative chaperone required for nitric oxide reductase | 90 | -1.3 | 1.0 | -1.6 | 1.0 | 1.6 | 2.6 |
| NosZ | Nitrous oxide reductase precursor | 95 | 1.1 | 1.9 | 1.6 | 2.0 | 2.1 | 2.6 |
| Ethvlbenzen | e degradation | | | | | | | |
| Apc1 | Acetophenone carboxylase, subunit 1 | 193 | - | - | - | - | 1.7 | 5.9 |
| Apc3 | Acetophenone carboxylase, subunit 3 | 270 | - | - | - | - | -1.5 | 2.6 |
| Apc4 | Acetophenone carboxylase, subunit 4 | 98 | - | - | - | - | -1.3 | 6.1 |
| Orf84 | Putative methyltransferase | 75 | - | - | - | - | 1.0 | 8.3 |
| Stress-relate | · | | | | | | | |
| ClpB | Chaperone | 361 | 1.2 | 2.2 | 1.8 | 4.1 | 2.4 | 3.4 |
| EbB88 | Putative heat shock protein | 97 | 1.2 | 1.5 | 1.4 | 4.8 | 2.8 | 3.6 |
| EbA2730 | Heat shock protein (Hsp-20 family) | 87 | - | - | 1.4 | 4.4 | - | - |
| GrpE | Putative GrpE protein (Hsp-70 cofactor) | 102 | - | - | - | - | 1.6 | 4.7 |
| NorVW | Nitric oxide reductase (flavorubredoxin NorV) with its associated | 176 | - | - | -1.0 | 2.4 | 1.2 | 7.0 |
| KatA | reductase (NorW) Catalase | 179 | 1.0 | 2.0 | -1.5 | 1.6 | 2.4 | 5.2 |
| Dps | DNA-binding ferritin-like protein (oxidative damage protectant) | 74 | 1.7 | 2.4 | 1.0 | 1.3 | 2.0 | 2.5 |
| OmpC | Outer membrane protein | 159 | 11.0 | 32.4 | 8.4 | 21.9 | 6.8 | 23.4 |
| Metabolism | | | | | | | | |
| AcsA | Acetyl-CoA synthetase | 231 | 2.6 | 4.7 | 4.4 | 13.4 | 3.5 | 5.7 |
| Icd | Isocitrate dehydrogenase | 260 | 1.5 | 3.0 | -1.4 | 2.1 | 2.2 | 4.3 |
| GlcB | Malate synthase G | 113 | 1.6 | 2.6 | 1.8 | 3.5 | 1.9 | 3.1 |
| ThrC | Threonine synthase | 230 | 4.3 | 1.5 | -1.2 | -1.3 | 1.6 | 1.4 |
| BoxC | Enoyl-CoA-hydratase/isomerase | 278 | 2.8 | 1.2 | 1.0 | -1.1 | 1.3 | 1.0 |
| DapA | Dihydrodipicolinate synthetase | 61 | - | - | 1.1 | 1.3 | 1.2 | 10.4 |
| GlnA | Glutamine synthetase | 102 | 1.1 | 1.2 | - | - | 1.7 | 3.2 |
| RpsB | 30S ribosomal protein S2 | 120 | - | - | - | - | 1.9 | 3.3 |
| KdsA | 2-Dehydro-3-deoxyphosphooctonate aldolase (EC 2.5.1.55) | 102 | - | - | -1.2 | 1.2 | 1.5 | 2.8 |
| RibH | 6,7-Dimethyl-8-ribityllumazine synthase (riboflavin synthase) | 80 | - | - | -1.3 | 1.1 | 1.5 | 2.5 |
| Others | | | | | | | | |
| EbA1033 | Putative exported solute binding protein | 151 | 2.0 | 2.7 | 1.0 | 1.5 | 1.6 | 2.0 |
| EbA3296 | Zn-dependent hydrolase | 126 | -1.0 | 1.6 | 1.7 | 4.3 | 2.4 | 3.3 |
| EbA6075 | Predicted short chain dehydrogenase | 136 | -1.2 | 1.4 | -1.8 | 1.1 | 1.8 | 3.9 |
| Hypothetica | 1 proteins | | | | | | | |
| EbA1598 | Hypothetical protein | 111 | - | - | 3.1 | 3.9 | - | - |
| EbA3069 | Conserved hypothetical protein, probably involved in cell wall turnover | 116 | 1.6 | 2.4 | 1.5 | 3.2 | 1.7 | 2.5 |
| EbA5766 | Conserved hypothetical protein | 104 | 3.9 | 4.4 | - | - | 2.3 | 7.4 |
| EbA6073 | Conserved hypothetical protein | 101 | -1.1 | 1.3 | -1.5 | 1.1 | 2.0 | 2.9 |
| EbA6294 | Conserved hypothetical protein | 92 | 1.1 | 1.5 | -1.3 | 1.2 | 1.5 | 3.1 |

^a Protein name and function as published by Rabus *et al.* (35). Proteins may fit in more than one group. ^b Score of MS-based identification as calculated using Mascot. The Mascot score was averaged for proteins identified from several protein spots.

^c Fold changes in abundance were determined with 2D DIGE. Protein extracts from succinate-utilizing cultures harvested 45 min after addition of the aromatic stressors to the test cultures served as reference state. Proteins with fold changes > 2.5 are green-colored and proteins with < -2.5 are red-colored, respectively.

^d Total solvent concentration of a mixture of ethylbenzene, toluene, *p*-cresol and phenol in the culture medium. ^e Time after addition of *p*-cresol, phenol and the solvent mixture to the test cultures.