Table S1: API strip scores for MS bacterial isolates

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Classification (genus) | Phylotypea | Lineagea  (Total number of isolates) | Isolateb,c | CONTROL | Glycerol | Erythritol | D-Arabinose | L-Arabinose | D-Ribose | D-Xylose | L-Xylose | D-Adonitol | Methyl-βD-Xylopyranoside | D-Galactose | D-Glucose | D-Fructose | D-Mannose | L-Sorbose | L-Rhamnose | Dulcitol | Inositol | D-Mannitol | D-Sortbitol | Methyl-αD-Mannopyranoside | Methyl-αD-glucopyranoside | N-AcetylGlucosamine | Amygdalin | Arbutin | Esculin ferric citrate | Salicin | D-Cellobiose | D-Maltose | D-Lactose (bovine origin) | D-Melibiose | D-Saccharose (sucrose) | D-Trehalose | Inulin | D-MeLeZitose | D-Raffinose | AmiDon (starch) | Glycogen | Xylitol | Gentiobiose | D-Turanose | D-Lyxose | D-Tagatose | D-Fucose | L-Fucose | D-Arabitol | L-arabitol | Potassium GlucoNaTe | Potassium 2-KetoGluconate | Potassium 5-KetoGluconate |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| *Streptococcus* | 1 | 1 (3) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | d |  |  |  |  |  |  |  |  | d |  |  |  |  |  |  |  | d |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  | w | w | w | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  | w | w |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2 (17) | 1 |  |  |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | d |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 4d (1) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | d |  |  |  |  |  |  |  |  | d |  |  |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 (1) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | d |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | w |  |  |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 (8) | 1 |  |  |  |  |  |  |  |  |  |  | w | w | w | d |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  | w | w | w | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  | w | w |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 (66) | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | d |  |  |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  | w |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  | w |  |  | w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Black: positive reaction; Grey w: weak reaction, d: variable reaction between duplicate tests of the same isolate; White: negative reaction; a: The numbering of the phylotypes and lineages are based on the order of groupings in table 3 and (clockwise) groupings in figure S3; b: To determine if fermentation patterns were consisted for isolates belonging to the same genomic lineage, two isolates from most of genomic lineages were tested, if possible; c: Number 1 isolates were tested in duplicate; d: AFLP analysis unlike rep-PCR genomic fingerprinting identified a single *Streptococcus* isolate as a separate genomic lineage. According to rep-PCR genomic fingerprinting this isolate belongs to *Streptococcus* lineage 7.

Table S2: Characteristics of isolates from ileostoma effluent

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Isolate** | **Sampling time point** | **Genus-level identifications of near full-length 16S rRNA sequences\*\*\*** | **Genus-level identifications of partial 16S rRNA sequences\*\*\*** | **Species-level identifications of near full-length 16S rRNA sequences\*\*\*** | **Phylotype\*** | **Grouping based on AFLP** | **Grouping based on Rep-PCR genomic fingerprinting** | **Final lineage grouping** |
| 2010\_Ileo\_MS\_VIc | 0 | *Streptococcus* |  | Streptococcus mitis group | 1 | 6 | 1 | 1 |
| 2010\_Ileo\_MS\_VId | 0 | *Streptococcus* |  | Streptococcus mitis group | 1 | 6 | 1 | 1 |
| 2010\_Ileo\_MS\_VIIb | 0 | *Streptococcus* |  | Streptococcus mitis group | 1 | 6 | 1 | 1 |
| 2010\_Ileo\_MS\_Va | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_Vc | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_Vd | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_Vf | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_VIe | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_VIf | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_VIIa | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_VIIc | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_VIIe | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_XVb | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_XVe | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_XVf | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2010\_Ileo\_MS\_XVIIIa | 0 | *Streptococcus* |  | Streptococcus bovis group | 2 | 5 | 8 | 2 |
| 2011\_Ileo\_MS\_B11 | 1 | *Streptococcus* |  |  |  | ND | 8 | 2 |
| 2011\_Ileo\_MS\_D2 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 8 | 2 |
| 2011\_Ileo\_MS\_E2 | 1 | *Streptococcus* |  |  |  | ND | 8 | 2 |
| 2011\_Ileo\_MS\_G4 | 1 | *Streptococcus* |  |  |  | ND | 8 | 2 |
| 2011\_Ileo\_MS\_D1 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F1 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H1 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A10 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B10 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_C10 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D10 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E10 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F10 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G10 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H10 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A11 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D11 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E11 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F11 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G11 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H11 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A12 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B12 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D12 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E12 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F12 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G12 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H12 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A2 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_C2 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F2 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H2 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B3 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_C3 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G3 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H3 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_C4 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D4 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F4 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A5 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B5 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_C5 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E5 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F5 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G5 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B6 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_C6 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D6 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G6 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A7 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B7 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D7 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E7 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F7 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G7 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H7 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A8 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B8 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E8 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F8 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G8 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_H8 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_A9 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_B9 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_D9 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_E9 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2011\_Ileo\_MS\_F9 | 1 |  | *Streptococcus* |  |  | ND | 7 | 3 |
| 2011\_Ileo\_MS\_G9 | 1 | *Streptococcus* |  | Streptococcus bovis group | 2 | ND | 7 | 3 |
| 2010\_Ileo\_MS\_Ie | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 2 | 4 | 4\*\*\*\* |
| 2010\_Ileo\_MS\_XVc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 4 | 2 | 5 |
| 2010\_Ileo\_MS\_Ve | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_VIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_VIIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_XIIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_XIId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_XIVb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_XIVf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 3 | 5 | 6 |
| 2010\_Ileo\_MS\_XVa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | Inconclusive | 5 | 6 |
| 2010\_Ileo\_MS\_Ia | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_Ib | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_Ic | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_Id | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_If | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IIIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIIIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIIIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIIIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IXa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IXb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IXc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IXd | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IXe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_IXf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIIId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIIIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIIIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_Xf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIIIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIIIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIIIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIIId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIIIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIIIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIIa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIIb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIIc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIId | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIIe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XVIIf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIXa | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIXb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XIXc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | Inconclusive | 4 | 7 |
| 2010\_Ileo\_MS\_XIXd | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | Inconclusive | 4 | 7 |
| 2010\_Ileo\_MS\_XIXe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | Inconclusive | 4 | 7 |
| 2010\_Ileo\_MS\_XIXf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XXa | 0 |  | *Streptococcus* |  |  | Inconclusive | 4 | 7 |
| 2010\_Ileo\_MS\_XXb | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XXc | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XXd | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XXe | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_XXf | 0 | *Streptococcus* |  | Streptococcus salivarius group | 3 | 1 | 4 | 7 |
| 2010\_Ileo\_MS\_VIId | 0 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | 10 | 16 | 8 |
| 2011\_Ileo\_MS\_C9 | 1 | *Enterococcus* |  | Enterococcus faecium group | 5c\*\* | ND | 15 | 9 |
| 2010\_Ileo\_MS\_XIIe | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 7 | 14 | 10 |
| 2010\_Ileo\_MS\_XIVa | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 7 | 14 | 10 |
| 2010\_Ileo\_MS\_XVIIIc | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 7 | 14 | 10 |
| 2010\_Ileo\_MS\_XVIIIe | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 7 | 14 | 10 |
| 2011\_Ileo\_MS\_B4 | 1 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | ND | 14 | 10 |
| 2011\_Ileo\_MS\_C12 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 13 | 11 |
| 2011\_Ileo\_MS\_D3 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 13 | 11 |
| 2011\_Ileo\_MS\_F3 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 13 | 11 |
| 2011\_Ileo\_MS\_H4 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 13 | 11 |
| 2011\_Ileo\_MS\_H5 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 13 | 11 |
| 2011\_Ileo\_MS\_H6 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 13 | 11 |
| 2011\_Ileo\_MS\_A1 | 1 |  | *Enterococcus* |  |  | ND | 11 | 12 |
| 2011\_Ileo\_MS\_E1 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_G1 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_B2 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_G2 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_A4 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_E4 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_D5 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2011\_Ileo\_MS\_C7 | 1 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | ND | 11 | 12 |
| 2010\_Ileo\_MS\_XVd | 0 | *Enterococcus* |  | Enterococcus avium group | 5b\*\* | Inconclusive | 11 | 12 |
| 2011\_Ileo\_MS\_B1 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_C1 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_C11 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_A3 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_E3 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_A6 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_F6 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_D8 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2011\_Ileo\_MS\_H9 | 1 |  | *Enterococcus* |  |  | ND | 12 | 13 |
| 2010\_Ileo\_MS\_Vb | 0 | *Enterococcus* |  | Enterococcus faecium group | 5c\*\* | 12 | 12 | 13 |
| 2010\_Ileo\_MS\_VIa | 0 |  | *Enterococcus* |  |  | 12 | 12 | 13 |
| 2010\_Ileo\_MS\_IVa | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_IVb | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_IVc | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_IVd | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_IVe | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_IVf | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_Xa | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_Xb | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_Xc | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_Xd | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_Xe | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | Inconclusive | 17 | 14 |
| 2010\_Ileo\_MS\_XIIa | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XIIb | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XIIf | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XIVc | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XIVd | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XIVe | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XVIIIb | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XVIIId | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2010\_Ileo\_MS\_XVIIIf | 0 | *Enterococcus* |  | Enterococcus faecalis | 6 | 11 | 17 | 14 |
| 2011\_Ileo\_MS\_C8 | 1 | *Enterococcus* |  | Enterococcus faecalis | 6 | ND | 17 | 14 |
| 2011\_Ileo\_VSA\_C1 | 1 | *Lactobacillus* |  | Lactobacilus fermentum | 8 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_D1 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_E1 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_D2 | 1 | *Lactobacillus* |  | Lactobacilus fermentum | 8 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_E2 | 1 | *Lactobacillus* |  | Lactobacilus fermentum | 8 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_F2 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_F3 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_E4 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_A5 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_B5 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_C5 | 1 | *Lactobacillus* |  | Lactobacilus fermentum | 8 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_E5 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_A6 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_C6 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_D6 | 1 | *Bacteroides* |  | Bacteroides fragilis | 7 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_E6 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_D7 | 1 | *Bacteroides* |  | Bacteroides fragilis | 7 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_G7 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_D8 | 1 | *Bacteroides* |  | Bacteroides fragilis | 7 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_F8 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_C9 | 1 | *Bacteroides* |  | Bacteroides fragilis | 7 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_G9 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_D11 | 1 | *Bacteroides* |  | Bacteroides fragilis | 7 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_C12 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2011\_Ileo\_VSA\_E12 | 1 | *Veillonella* |  | Veillonella parvula | 4 | ND | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Ia | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Ib | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Ic | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Id | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Ie | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 8 | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIa | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 8 | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIe | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | 8 | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIIb | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIIc | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIId | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIIe | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IIIf | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IVa | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IVb | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IVc | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_IVf | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Vb | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Vc | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Vd | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_Ve | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIa | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIb | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIc | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VId | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIe | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIf | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIIa | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIIb | 0 | *Enterococcus* |  | Enterococcus gallinarum group | 5a\*\* | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIIc | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIId | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIIe | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |
| 2010\_Ileo\_VSA\_VIIf | 0 | *Veillonella* |  | Veillonella parvula | 4 | Inconclusive | Inconclusive | Inconclusive |

\*1: phylotype grouping based on a threshold of 97% sequence identity

\*\*: phylotype grouping when the threshold fowas raised from 97% to 99% sequence identity

\*\*\*: Blanks represent isolate for which no near full-length and/or partial 16S rRNA gene sequences were available

\*\*\*\*: AFLP analysis unlike Rep-PCR genomic fingerprinting identified a single *Streptococcus* isolate as a separate genomic lineage

ND: Not determined