

Table S1. Morphological, biochemical and percentage of identification by API 50 CHL, and ABIS online for *Lactobacillus* strains isolated from piglets GIT.

[illegible]

N-acetylglucosamine	-	-	?	- /24h; +/48h	-	+	+	-	?/24- 72h	-	+	?/24h; +/48h	-	-
Amygdalin	-	-	-	-	-	+	-	-	-	-	?/24h; +/72h	-	-	-
Arbutin	-	-	-	-	-	+	-	-	-	-	+	-	-	-
Esculin	-	-	-/24h; +/48h	- /24h; ?/72h	+	+	-	-	+/48h	-	+	-	-	-
Salicin	-	-	-	-	-	+	-	-	-	-	+	-	-	-
D-cellobiose	-	-	-	-	?	+	-	-	+	-	+	-	-	-
D-maltose	+	+	+	+	+	+	+	+	+	+	+	+	+	+
D-lactose	+	+	-	-	?	+	+	+	+	+	+	-	+	+
D-melibiose	+	+	-	-	-	+	+	+	?/48- 72h	+	-/24h; +/48h	?/24h; +/48h	+	+
D-saccharose (sucrose)	+	+	-/24h; +/48h	- /24h; ?/24h	+	+	+	+	+	+	+	+	+	+
D-trehalose	-	-	-	-	-	+	+	-	-	-	+	-	-	-
Inulin	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-melezitose	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-raffinose	+	+	-	-	?	+/48h	+	+	?	+	+	+	+	+
Starch	-	-	-/24h; +/48h	-	?	-	-	-	?	-	?/24h; +/48h	-	-	-
Glycogen	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylitol	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gentibiose	-	-	-	-	-	?	-	-	?	-	?/24h; +/48h	-	-	-
D-turanose	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-lyxose	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-tagatose	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-fucose	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-fucose	-	-	-	-	-	-	+	-	-	-	-	-	-	-
D-arabitol	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-arabitol	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium gluconate	?	-	-	-	-	?	-	-	-	?	-	-	-	+
Potassium 2- ketogluconate	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium 5- ketogluconate	-/24h; ?/48h	-	-	-	-	-	-	-	-	?/48h	-	-	-	-

API 50 CHL %	99.8	97.4	90.1	78	74.7	85.4	99.9	97.3	93.9	95.9	74.4	67.1	97.4	96.9
ABIS online %	91.8	88.5	75.8	91.8	88.1	90.5	93.7	88.1	91.6	91.6	88.3	85.2	85.2	85.6

1: *L. fermentum* biotype 1, IBNA 71; 2: *L. fermentum* biotype 1, IBNA 75; 3: *L. acidophilus*, IBNA 76; 4: *L. delbrueckii*, IBNA 77; 5: *L. acidophilus* biotype 3, IBNA 81; 6: *L. plantarum* biotype 1, IBNA 84; 7: *L. salivarius*, IBNA 87; 8: *L. fermentum* biotype 1, IBNA 90; 9: *L. acidophilus* biotype 3, IBNA 94; 10: *L. fermentum* biotype 1, IBNA 95; 11: *L. acidophilus* biotype 1, IBNA 64; 12: *L. acidophilus* biotype 1, IBNA 70; 13: *L. fermentum* biotype 1, IBNA 78; 14: *L. plantarum* biotype 1, IBNA 85; a: Gram labile bacilli short or infrequent cocobacilli, thickness, nonspore forming, arranged in long chains or irregular small piles; b: Gram positive, nonspore forming with thick rods or medium, long or short filaments (grouped) slightly curved, straight ends, arranged diplo, in short chains or in palisade; c: Gram-positive medium, non-spore forming rods, grouped diplo or in short filaments or irregular piles, with metachromatic granules per cell; x: small, medium or large colonies, 2.0-3.0 mm in diameter, R type, semi-transparent, opaque or colourless on MRS agar, low turbidity, difficult to homogenize, low deposit, lenticular, with granular formation; y: small/medium/large colonies, 1.0-4.0 mm in diameter, S type, round, opaque/whitish/colourless, semi-transparent, easily/intense homogeneous, low deposition in MRS broth, lenticular, without surface formations; z: small, 0.5-1.0 mm in diameter, S type, opaque/whitish, glossy colonies medium/low turbidity, inhomogeneous, with flakes in suspension, abundant storage, granular; t: small/medium colonies, semi-transparent, colourless or whitish, 1.0-2.0 mm in diameter, R type, flattened, with finely serrated edges, absent or reduced turbidity, inhomogeneous, medium deposit; f: medium/large colonies, opaque/whitish, S type, 1.0-3.0 mm in diameter, low/medium/intense turbidity in MRS broth, inhomogeneous, abundant/granular medium deposit, powdery, without surface formations.