Supplementary Material

Microorganism detection by chromogenic agar media and identification by MALDI-TOF-MS

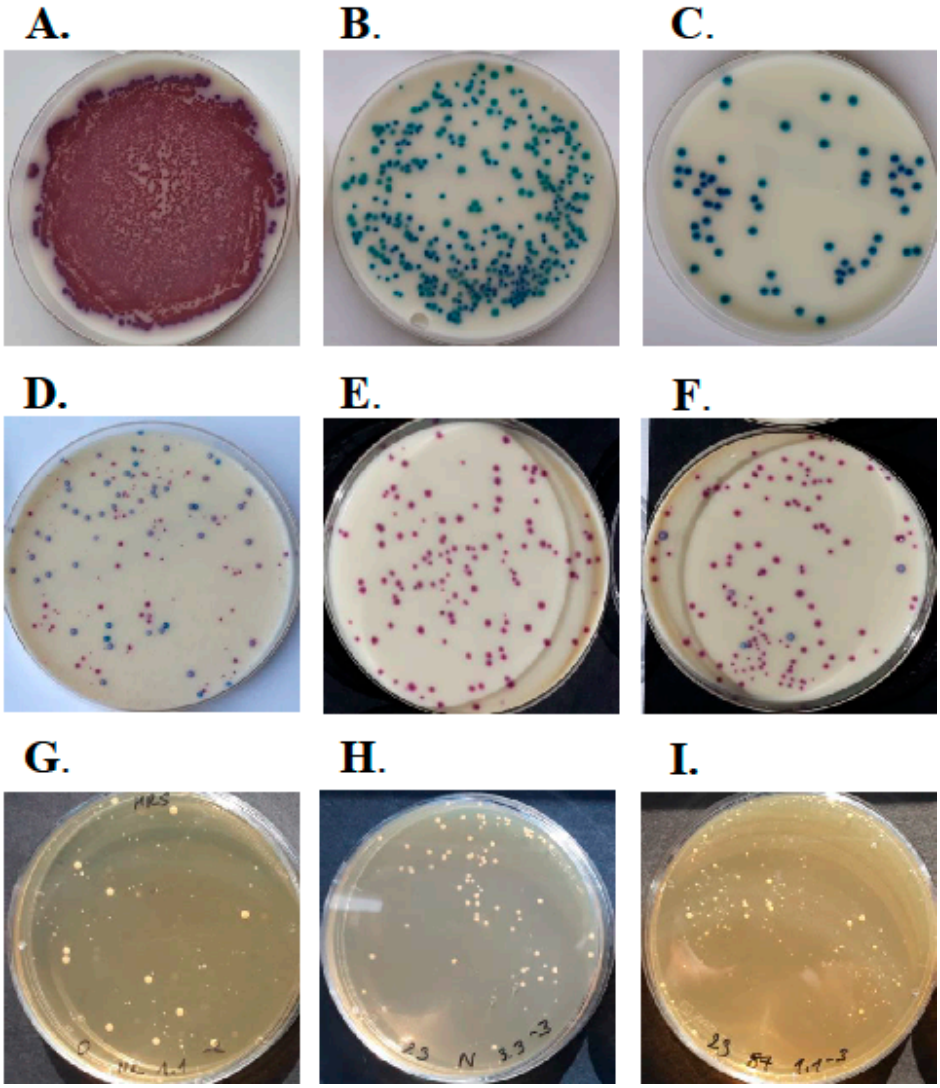


Fig. S1. Demonstrative photos of agar media used in the study. S**1A-C.** RAPID Salmonella agar**. A.** Negative control, day 21 (d: 21, g: NC) **B.** Negative control, day 44 (d: 44, g; NC) **C.** Positive control – group receiving 3% URSM, day 44 (d: 44, g: PC). **S1 D-F.** StrepB agar. **D**. Negative control, day21 (d: 21, g: NC) **E.** Group receiving 3% addition of *B. subtilis* 67Y FRSM, day 44 (d: 44, g: 67) **F.** Positive control – group receiving 3% of URSM, day 44 (d: 44, g: PC). **S1 G-I.** MRS agar. **G.** Negative control, day 21 (d: 21, g: NC) **H.** Positive control – group receiving 3% URSM, day 44 (d: 44, g: PC) **I.** Group receiving 3% *B. subtilis* 87Y FRSM, day 44 (d: 44, g: 87Y).

Table S1. Performance of broiler chickens used in the experiment. NC – negative control; PC – birds receiving 3% addition of URSM; 67 – birds receiving 3% addition of FRSM by *B. subtilis* 67; 87Y – birds receiving 3% addition of FRSM by *B. subtilis* 87Y.

Day 30						
Parameter	**NC**	**PC**	**67**	**87Y**	**SEM**	**p-value**
Live body weight (g)	Mean 1617.50	Mean 1706.25	Mean 1697.50	Mean 1698.75	38.54	0.859
Daily gains (g)	84.42	75.68	74.89	76.75	3.28	0.760
FCR (kg of feed/kg of gain)	1.58	1.49	1.52	1.49	0.03	0.815
Day 37						
Parameter	**NC**	**PC**	**67**	**87Y**	**SEM**	**p-value**
Live body weight (g)	Mean 2242.50	Mean 2275.00	Mean 2236.25	Mean 2250.00	36.59	0.987
Daily gains (g)	89.28	81.24	76.95	78.74	5.34	0.881
FCR (kg of feed/kg of gain)	1.60	1.59	1.60	1.60	0.02	0.998
Day 44						
Parameter	**NC**	**PC**	**67**	**87Y**	**SEM**	**p-value**
Live body weight (g)	Mean 2946.25	Mean 2892.50	Mean 2945.00	Mean 2881.25	51.17	0.963
Daily gains (g)	100.53	88.21	101.24	90.17	7.38	0.909
FCR (kg of feed/kg of gain)	1.57	1.60	1.59	1.61	0.02	0.973

Histophotometric analysis

Table S2. Morphometry of cecal intestines harvested at day 23 of experiment. Numbers represent mean of each parameter. NC – negative control; PC – birds receiving 3% addition of URSM; 67 – birds receiving 3% addition of FRSM by *B. subtilis* 67; 87Y – birds receiving 3% addition of FRSM by *B. subtilis* 87Y.

	Day 44					
Parameter	**NC**	**PC**	**67**	**87Y**	**SEM**	**p-value**
Villus height (µm)	1750.15	1501.88	1588.22	1628.37	50.61	0.418
Villus width (µm)	329.33	230.09	283.84	252.90	20.39	0.278
Distance between villi (µm)	42.16	76.34	59.50	68.27	6.13	0.286
Amount	6.52	6.62	7.16	6.00	0.39	0.740