Supplementary Table 1. Composition of probiotic products with viable counts

Brand name	Origin of the product	Name of organisms	Viable count (cfu/gm)
Brand 1	USA	*Lactobacillus acidophilus*	6×10^{10} cfu/kg
		Bacillus subtilis	
		Bifidobacterium longum	
Brand 2	India	*Lactobacillus acidophilus*	4×10^{8}
		Bacillus subtilis	1×10^{9}
		Pediococcus acidilactici	1×10^{8}
		Saccharomyces cerevisiae	1×10^{8}
		Streptomyces spp.	5×10^{7}
Brand 3	Austria	*Lactobacillus acidophilus*	2×10^{9}
		Lactobacillus bulgaricus	
		Lactobacillus rhamnosus	
		Lactobacillus plantarum	
		Bifidobacterium bifidum	
		Streptococcus thermophilus	
		Enterococcus faecium	
Brand 4	Korea	*Lactobacillus acidophilus*	6×10^{9}
		Bifidobacterium bifidum	1×10^{9}
		Saccharomyces boulardii	2×10^{9}
		Aspergillus oryzae	1×10^{9}
Brand 5	UK	*Lactobacillus acidophilus*	7×10^{9}
		Lactobacillus plantarum	
		Bacillus subtilis	3×10^{9}
		Enterococcus faecium	1×10^{2}
Brand 6	Taiwan	*Lactobacillus acidophilus*	5×10^{12}
		Lactobacillus reuteri	5×10^{12}
		Lactobacillus salivarius	5×10^{12}
		Enterococcus faecium	5×10^{12}
		Pediococcus acidilactici	5×10^{12}
Brand 7	China	*Lactobacillus acidophilus*	Not specified
		Lactobacillus plantarum	Not specified
		Bacillus subtilis	Not specified
		Bacillus licheniformis	2×10^{8}
		Saccharomyces cerevisiae	2×10^{8}

Supplementary Table 2. List of antimicrobials used for antimicrobial susceptibility testing

SN	Antimicrobial classes	Antimicrobial agents	Disc[§] content (µg)	Interpretation criteria used
1	Penicillin	Penicillin-G (P)	10 units	EUCAST
		Ampicillin (AM)	10	EUCAST
		Amoxicillin (AX)	10	CLSI
		Oxacillin (OX)	1	EUCAST
2	Cephalosporin			
	2nd generation	Cefuroxime (CXM)	30	EUCAST
	3rd generation	Cefotaxime (CTX)	30	EUCAST
	4th generation	Cefepime (FEP)	30	EUCAST
3	Cephamycins	Cefoxitin (FOX)	30	EUCAST
4	Fluoroquinolones	Nalidixic acid (NA)	30	CLSI
		Ciprofloxacin (CIP)	5	CLSI
		Levofloxacin (LEV)	5	CLSI
		Ofloxacin (OFX)	5	EUCAST
5	Carbapenem	Meropenem (MEM)	10	EUCAST
6	Tetracycline	Tetracycline (TE)	30	CLSI
7	Macrolides	Erythromycin (E)	15	CLSI
8	Glycopeptide and lipoglycopeptide	Vancomycin (VA)	30	CLSI
9	Lincosamides	Clindamycin (DA)	2	CLSI
10	Oxazolidinone	Linezolid (LNZ)	30	EUCAST

[§]The antimicrobial discs were purchased from Biomaxima, Polland.

Supplementary Table 3. Oligonucleotide primers used for the detection of β-lactamase (BSBL, and ESBL), PMQR and tetracycline resistance genes

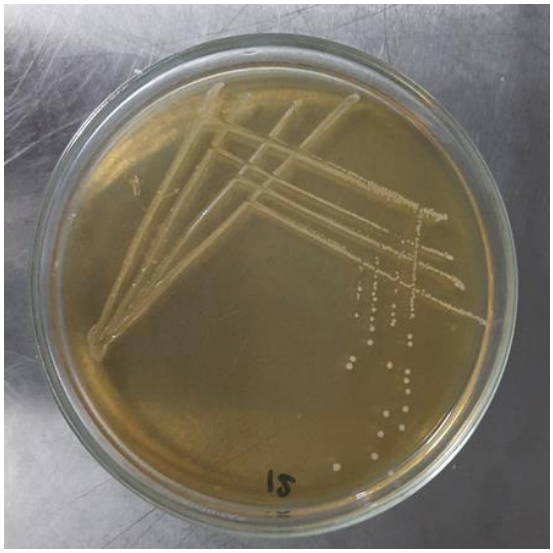
Genes	Primers	Sequences 5'→ 3'	Size (bp)	References
BSBL-encoding genes				
*bla*TEM	TEM-410F	GGTCGCCGCATACACTATTCTC	372	(Le et al., 2015)
	TEM-781R	TTTATCCGCCTCCATCCAGTC		
*bla*SHV	SHV-287F	CCAGCAGGATCTGGTGGACTAC	231	
	SHV-517R	CCGGGAAGCGCCTCAT		
ESBL-encoding genes				
*bla*CTX-M-1	ctxm1-15F	GAATTAGAGCGGCAGTCGGG	588	
	ctxm1-02R	CACAACCCAGGAAGCAGGC		
*bla*CTX-M-2	ctxm2-39F	GATGGCGACGCTACCCC	107	
	ctxm2-45R	CAAGCCGACCTCCCGAAC		
PMQR-encoding genes				
*qnr*A	qnrA-F	ATTTCTCACGCCAGGATTTG	516	(Robicsek et al., 2006)
	qnrA-R	GATCGGCAAAGGTTAGGTCA		
*qnr*B	qnrB-F	GATCGTGAAAGCCAGAAAGG	469	
	qnrB-R	ACGATGCCTGGTAGTTGTCC		
*qnr*S	qnrS-F	ACGACATTCGTCAACTGCAA	417	
	qnrS-R	TAAATTGGCACCCTGTAGGC		
Tetracycline resistance genes				
tetA	tetA-L	GGCGGTCTTCTTCATCATGC	502	(Goswami et al., 2008)
	tetA-R	CGGCAGGCAGAGCAAGTAGA		
tetB	tetBGK-L2	CGCCCAGTGCTGTTGTTGTC	173	
	tetBGK-R2	CGCGTTGAGAAGCTGAGGTG		

BSBL = Broad-spectrum β-lactamase; ESBL = Extended-spectrum β-lactamase; PMQR = Plasmid-mediated quinolones resistance.

Supplementary Table 4. Brand-wise resistance pattern of *Lactobacillus* spp. isolated from poultry probiotic products

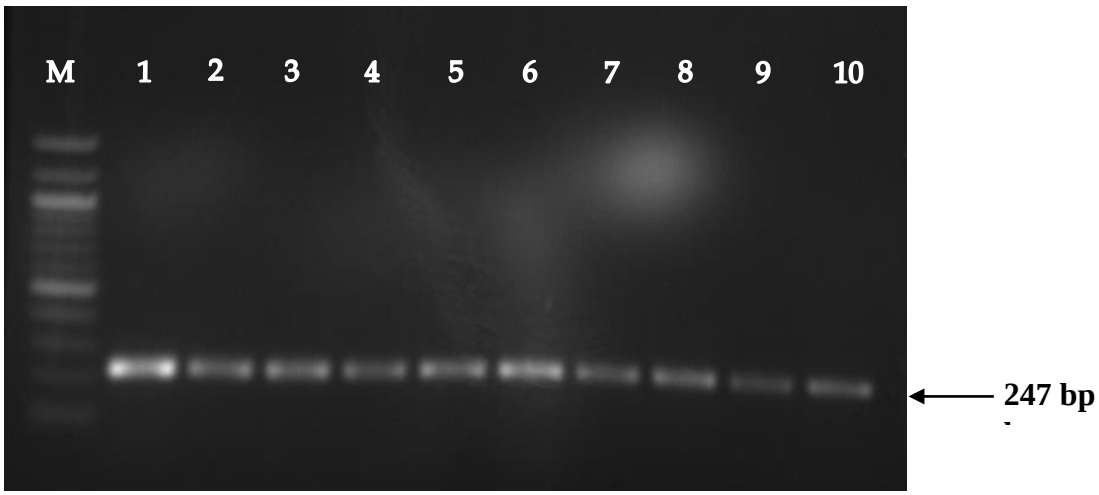
Antimicrobial agents	No. (%) of isolates resistant to antimicrobial agents							
	Brand 1 (n = 5)	Brand 2 (n = 5)	Brand 3 (n = 5)	Brand 4 (n = 5)	Brand 5 (n = 5)	Brand 6 (n = 5)	Brand 7 (n = 5)	Total (n = 35)
Penicillin G	5 (100)	4 (80)	1 (20)	4 (80)	5 (100)	5 (100)	0	24(68.6)
Ampicillin	5 (100)	2 (40)	0	3 (60)	5 (100)	5 (100)	0	20(57.1)
Amoxicillin	5 (100)	3 (60)	0	1 (20)	5 (100)	5 (100)	0	19(54.3)
Oxacillin	5 (100)	2 (40)	1 (20)	3 (60)	5 (100)	5 (100)	1 (20)	22(62.9)
Cefuroxime	5 (100)	1 (20)	0	2 (40)	5 (100)	5 (100)	4 (80)	22(62.9)
Cefotaxime	5 (100)	3 (60)	0	5 (100)	5 (100)	5 (100)	4 (80)	27(77.1)
Cefepime	5 (100)	2 (40)	3 (60)	4 (80)	5 (100)	5 (100)	5 (100)	29(82.9)
Cefoxitin	5 (100)	0	1 (20)	0	4 (80)	3 (60)	0	13(37.1)
Nalidixic acid	0	0	3 (60)	0	0	0	1 (20)	4(11.4)
Ciprofloxacin	0	0	2 (40)	0	0	0	0	2(5.7)
Levofloxacin	0	0	0	0	0	0	0	0(0)
Ofloxacin	5 (100)	0	4 (80)	0	4 (80)	4 (80)	5 (100)	22(62.9)
Meropenem	5 (100)	1 (20)	0	0	5 (100)	5 (100)	2 (40)	18(51.4)
Tetracycline	2 (40)	0	1 (20)	1 (20)	2 (40)	1 (20)	0	7(20)
Erythromycin	2 (40)	0	0	2 (40)	2 (40)	2 (40)	0	8(22.9)
Vancomycin	0	0	0	0	2 (40)	2 (40)	0	4(11.4)
Clindamycin	2 (40)	0	1 (20)	1 (20)	0	0	0	4(11.4)
Linezolid	0	0	0	0	0	0	0	0(0)

Supplementary Fig. 1. Round, creamy white colonies of *Lactobacillus* spp. on MRS agar.



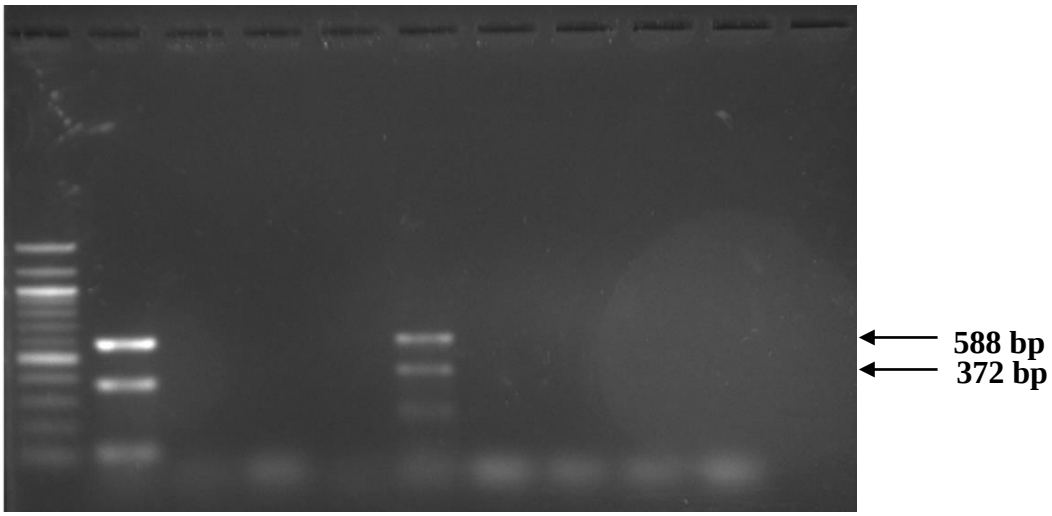
Supplementary Fig. 2. PCR amplified products of 247 bp of 16s rRNA gene of *Lactobacillus* spp. on 1.5% agarose gel.

Legends: M = DNA marker (100 bp), Lane 1 = Positive control, Lane 2-10 = PCR products of *Lactobacillus* spp. isolates



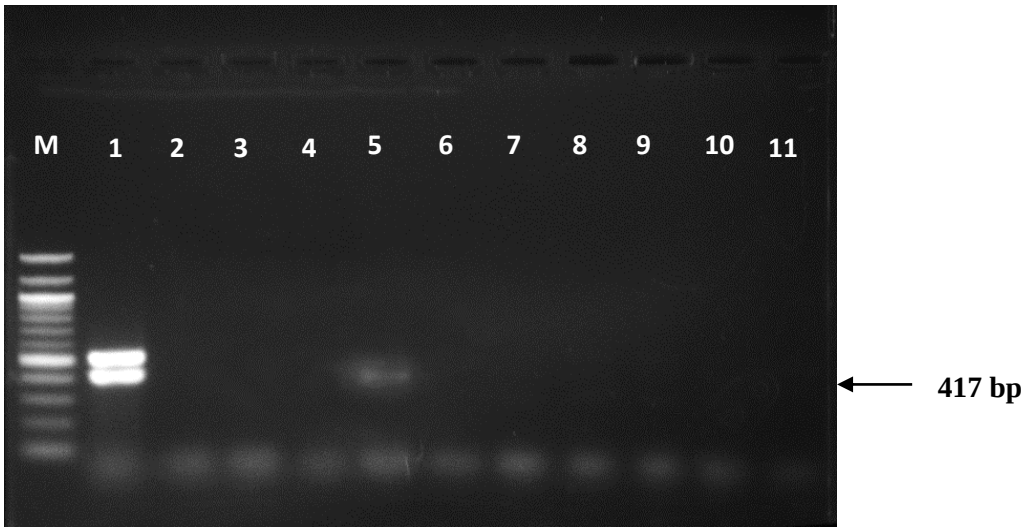
Supplementary Fig. 3. Detection of β-lactamase genes (*bla*CTX-M-1, 588 bp; *bla*TEM, 372 bp) in *Lactobacillus* spp. (Lane 5=Ep4) isolated from pharmaceutical products by multiplex PCR.

Legends: M = DNA marker (100 bp), Lane 1 = Positive control, Lane 2-9 = PCR products of *Lactobacillus* spp. isolates.



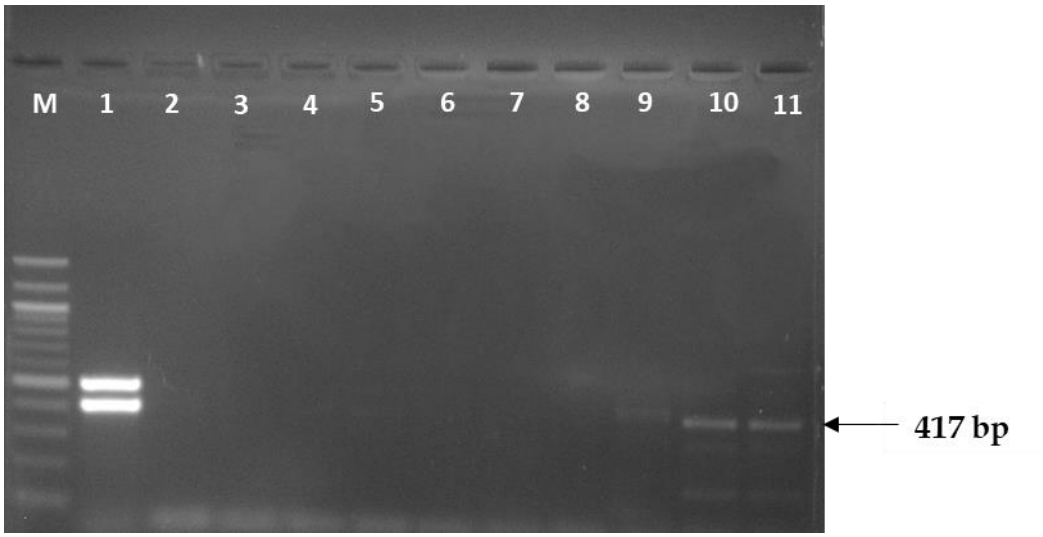
Supplementary Fig. 4 (a). Detection of PMQR gene (*qnr*S, 417 bp) in *Lactobacillus* spp. (Lane 5=Ep4) isolated from pharmaceutical products by multiplex PCR.

Legends: M = DNA marker (100 bp), Lane 1 = Positive control, Lane 2-11 = PCR products of *Lactobacillus* spp. isolates.



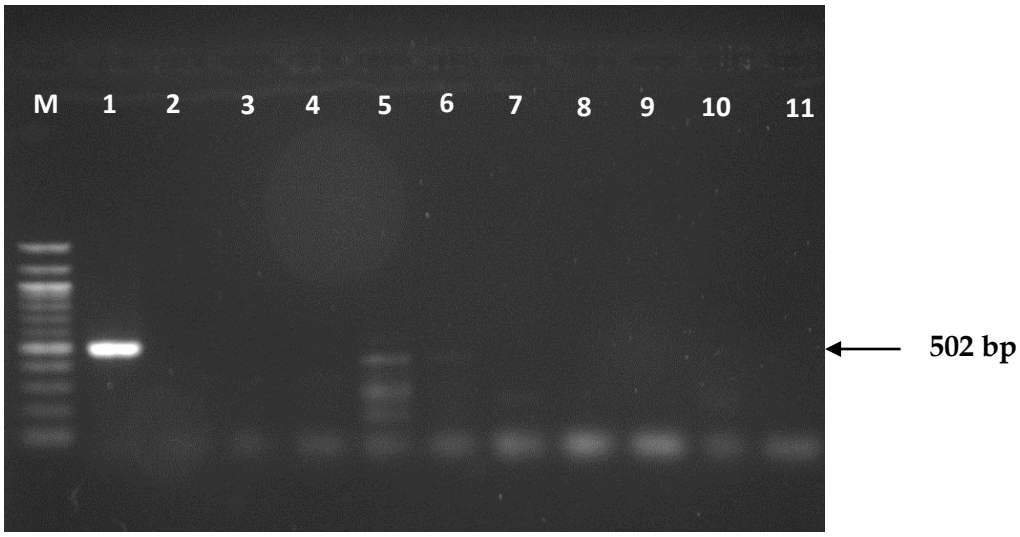
Supplementary Fig. 4 (b). Detection of PMQR gene (*qnr*S, 417 bp) in *Lactobacillus* spp. (Lane 9=Pb3, 10=Pb4, 11=Pb5) isolated from pharmaceutical products by multiplex PCR.

Legends: M = DNA marker (100 bp), Lane 1 = Positive control, Lane 2-11 = PCR products of *Lactobacillus* spp. isolates.



Supplementary Fig. 5 (a). Detection of tetracycline resistance gene (*tet*A, 502 bp) in *Lactobacillus* spp. (Lane 5=Ep4) isolated from pharmaceutical products by multiplex PCR.

Legends: M = DNA marker (100 bp), Lane 1 = Positive control, Lane 2-11 = PCR products of *Lactobacillus* spp. isolates.



Supplementary Fig. 5 (b). Detection of tetracycline resistance genes (*tet*B, 173 bp) in *Lactobacillus* spp. (Lane 10=Pb4, 11=Pb5) isolated from pharmaceutical products by multiplex PCR.

Legends: M = DNA marker (100 bp), Lane 1 = Positive control, Lane 2-11 = PCR products of *Lactobacillus* spp. isolates.