APPENDIX F

Bacterial culture media

1. 2x-YT broth (per one liter)

The following ingredients were dissolved in 900 ml of UDW;

Bacto-tryptone (Difco)	17	g
Bacto-yeast extract (Difco)	10	g and
NaCl	5	g

After completely dissolved, the volume was adjusted to 1,000 ml with DW and the sterilization was done by autoclavivg.

2. SOBAG agar (per one liter)

SOBAG agar was prepared by dissolving the following ingredients in 900 ml of DW.

Bacto tryptone (Difco)	20	g
Bacto-yeast extract (Difco)	5	g
NaCl	0.5	g and
Bacto-agar (Merk)	15	g

All ingredients were dissolved in DW and heated with stired until all of the ingredients were completely dissolved. It was then autoclaved. After the medium had cooled down to 55-60°C, the following reagents were added: 10 ml of sterilized 1 M $MgCl_2$, 55.6 ml of sterile 2 M glucose and 5 ml of filter-sterilized 20 mg/ml of ampicillin. SOBAG medium was completely mixed and then poured into petri-dishes (23-25 ml per plate).

3. SOBAG-N medium

SOBAG-N medium was SOBAG medium containing 100 μg/ml of nalidixic acid.

4. 2x-YT-AG medium

The 2X-YT-AG medium was 2x-YT medium containing 100 μg/ml of ampicillin and 2% glucose.

5. 2x-YT-AK medium

The 2x-YT-AK medium was 2x-YT medium containing 100 μg/ml of ampicillin and 50 μg/ml of kanamycin.

6. Luria-Bertani (LB) broth (per one liter)

Commercial LB broth powder (Merk) (25 g) was dissolved in 1,000 ml of DW. After autoclaving, the broth was kept at 4°C in 200 ml aliquots.

7. LB agar plate

LB agar was prepared by dissolving LB agar powder (37 g) in 1,000 ml of DW. After autoclaving, the medium was allowed to cool down to 55-60°C before pouring into petri-dishes (23-25 ml per plate).

8. LB-A agar plate

One liter of LB agar was prepared as described above. After autoclaving and cooling down to 55-60°C, ampicillin (sterilized by membrane filtration) was added to the preparation to a final concentration of 100 μg/ml. Agar was poured into 100-mm petri dishes (23-25 ml/plate). The plate was stored at 4°C.