NP30 E.tarda (typical)

Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078, 0.039, 0.02mg/ml, Control

E.tarda (typical) NP30 Surfuctant

Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

D60 E. tarda (typical)

Bacterial growth (OD 620nm) vs Incubation time (hours)
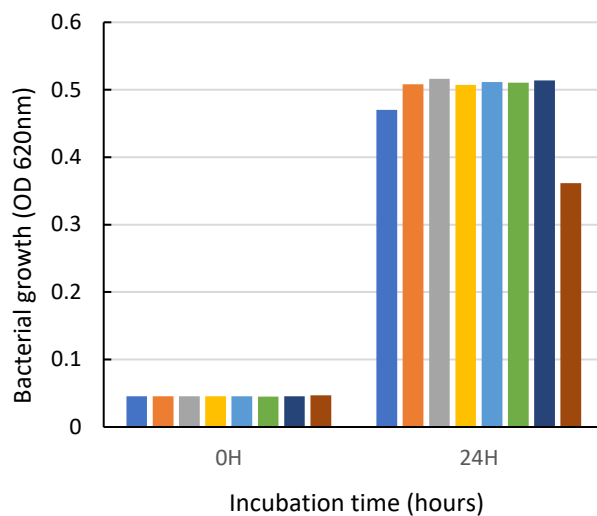
Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

E. tarda (typical) D60 Surfuctant

Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

NP30 E. tarda (atypical)

Bacterial growth (OD 620nm)

Incubation time (hours)
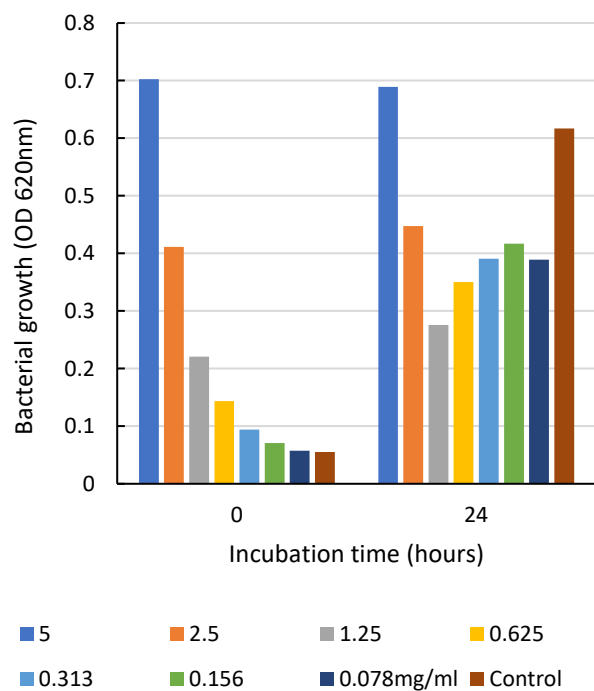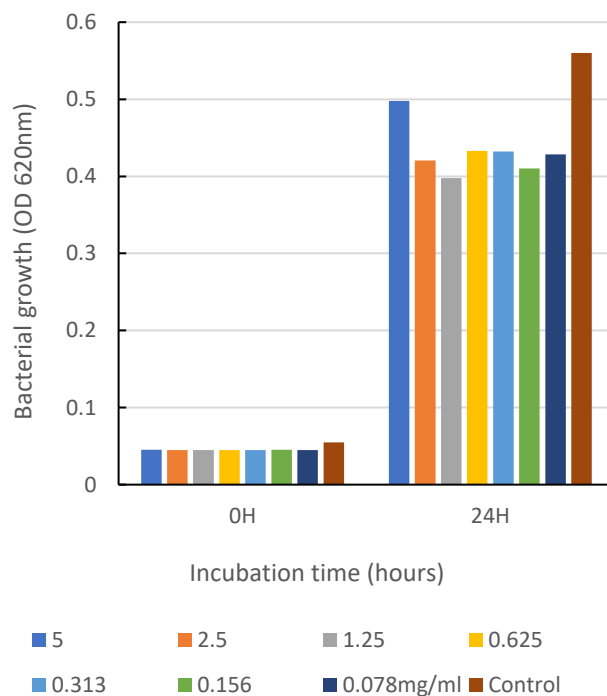
Legend: 5 | 2.5 | 1.25 | 0.625 | 0.313 | 0.156 | 0.078 | 0.039 | 0.02mg/ml
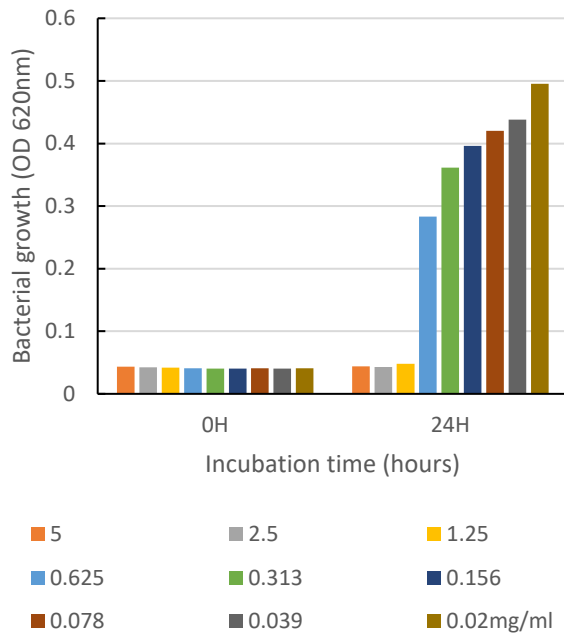
E. tarda (atypical) NP30 Surfuctant

Bacterial growth (OD 620nm)

Incubation time (hours)

Legend: 5 | 2.5 | 1.25 | 0.625 | 0.313 | 0.156 | 0.078 mg/ml | Control

D60 E. tarda (atypical)

Bacterial growth (OD 620nm)

Incubation time (hours)
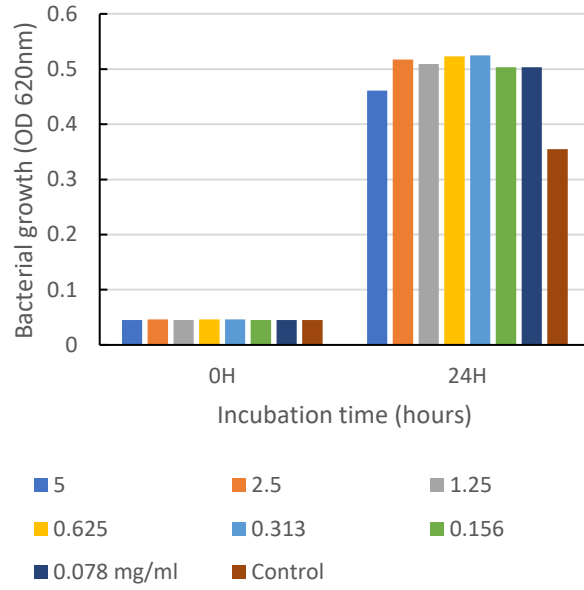
Legend: 5 | 2.5 | 1.25 | 0.625 | 0.313 | 0.156 | 0.078 | 0.039 | 0.02mg/ml | Control
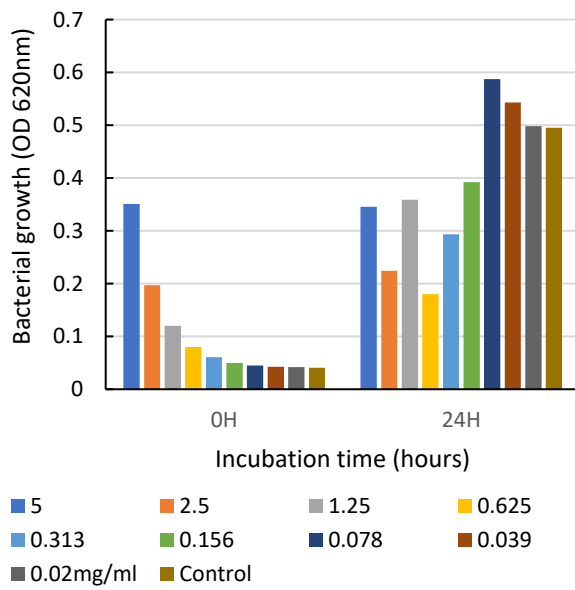
E. tarda (atypical) D60 Surfuctant

Bacterial growth (OD 620nm)

Incubation time (hours)

Legend: 5 | 2.5 | 1.25 | 0.625 | 0.313 | 0.156 | 0.078 mg/ml | Control
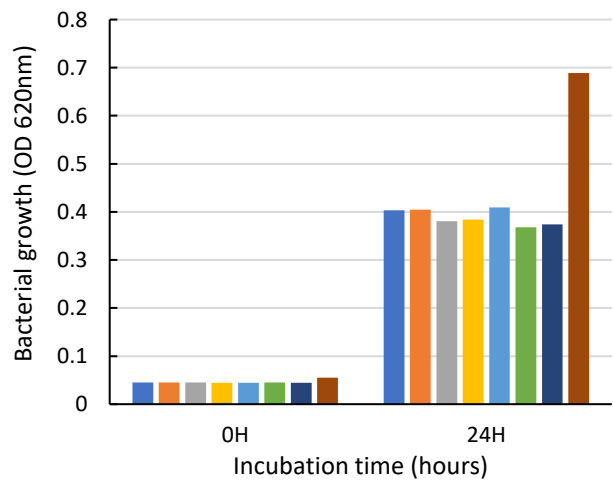
Nocardia seriolae NP30
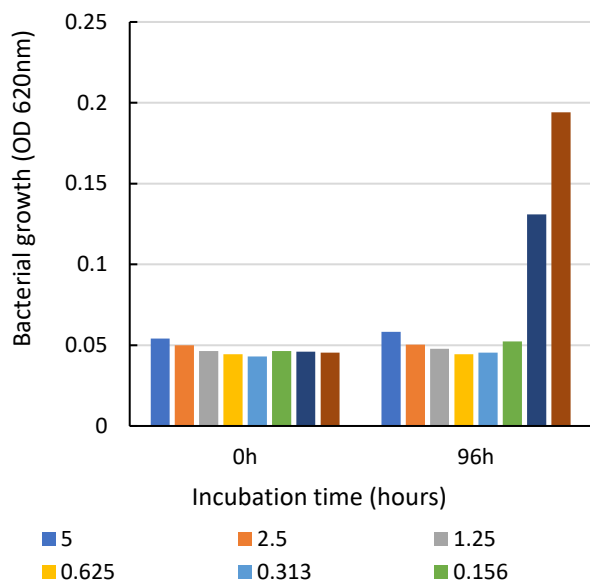
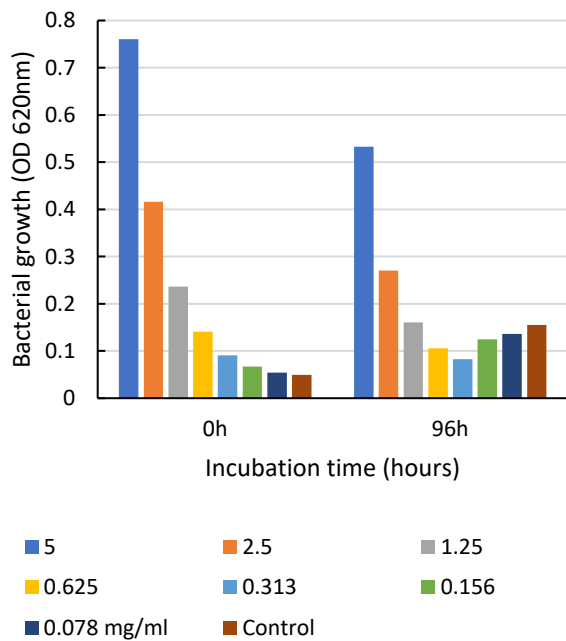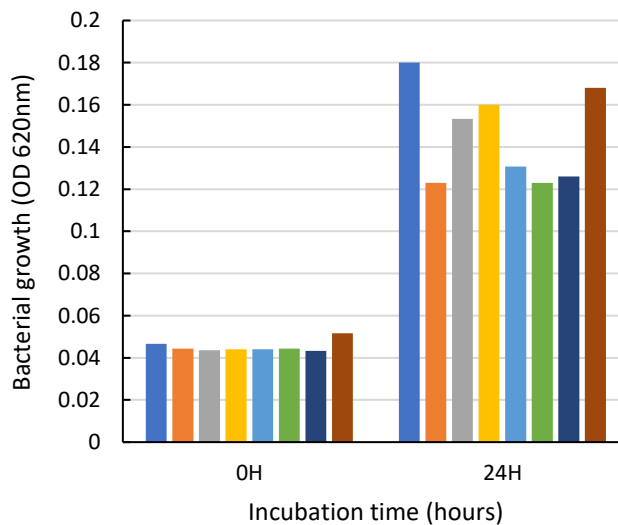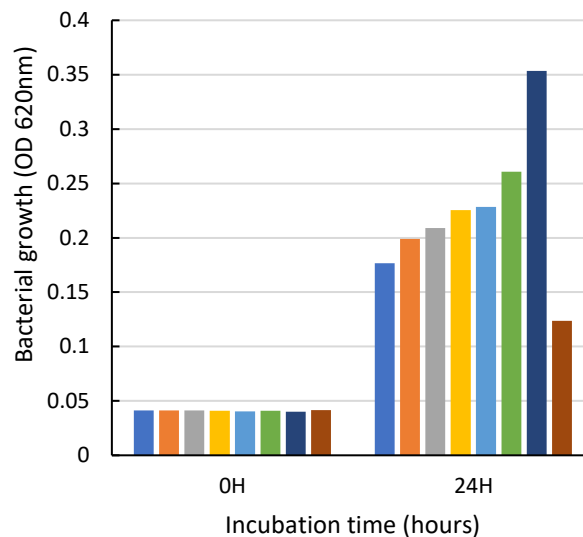Nocardia seriolae NP30 Surfuctant
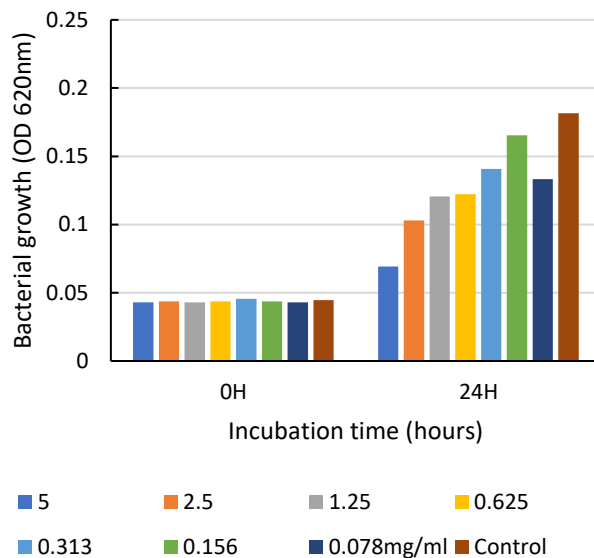
Nocardia seriolae D60

Nocardia seriolae D60 Surfuctant

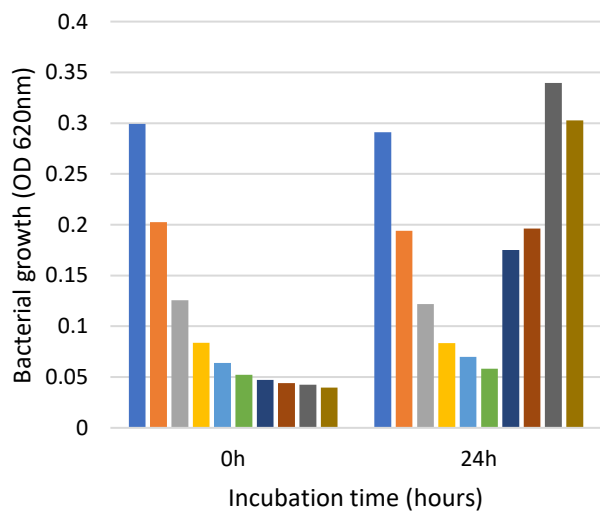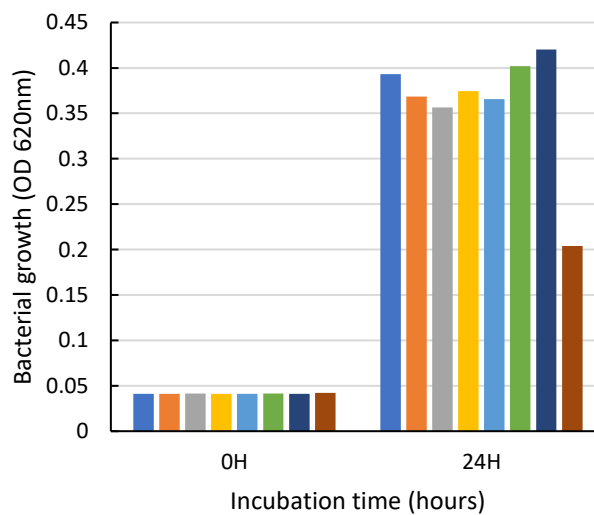## P. damselae NP30

Bacterial growth (OD 620nm) vs Incubation time (hours): 0h, 25h

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078, 0.039, 0.02mg/ml, Control

P. damselae NP30 Surfuctant

Bacterial growth (OD 620nm) vs Incubation time (hours): 0H, 24H

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

P. damselae D60

Bacterial growth (OD 620nm) vs Incubation time (hours): 0h, 24h

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078, 0.039, 0.02mg/ml, Control

P. damselae D60 Surfuctant

Bacterial growth (OD 620nm) vs Incubation time (hours): 0H, 24H
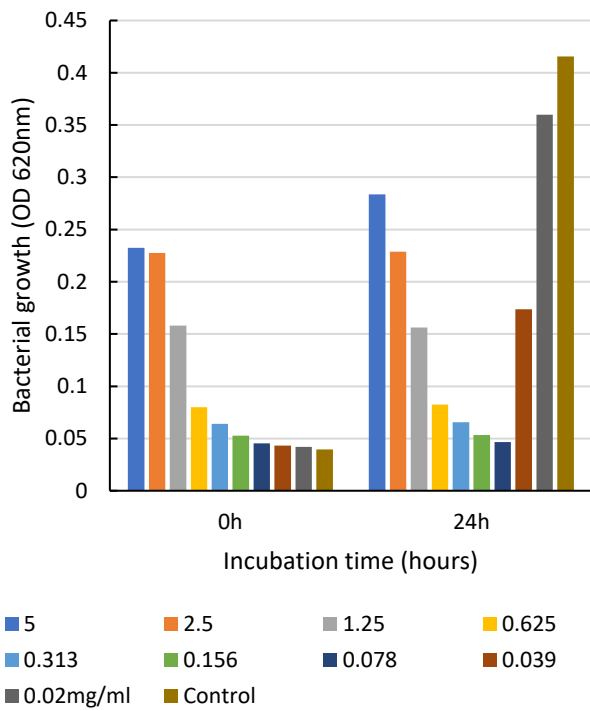
Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

4
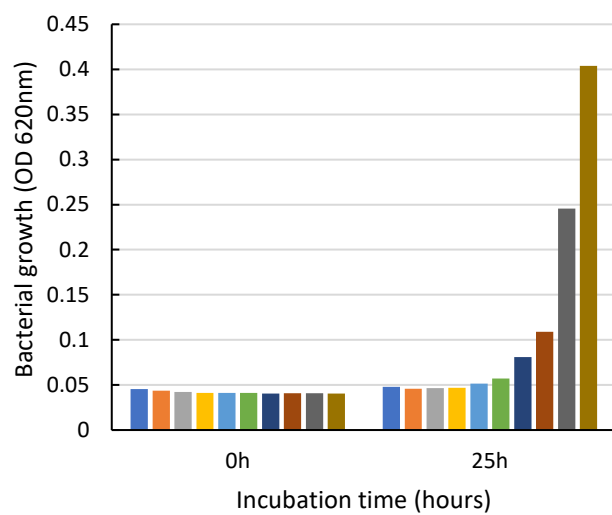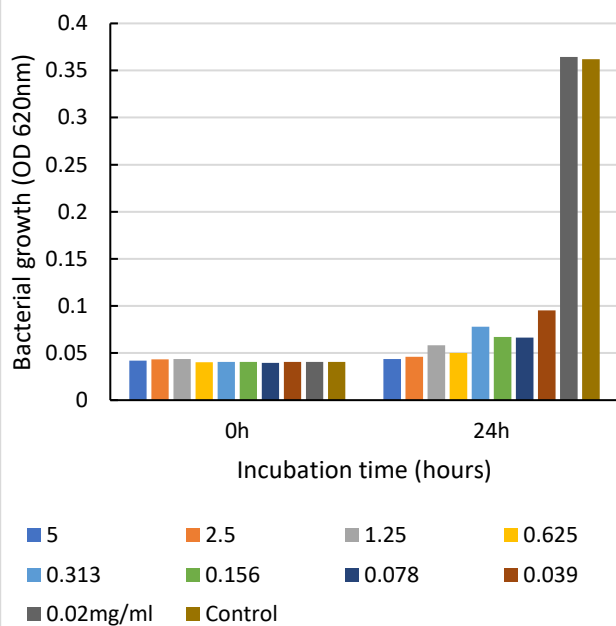
L. garviae NP30
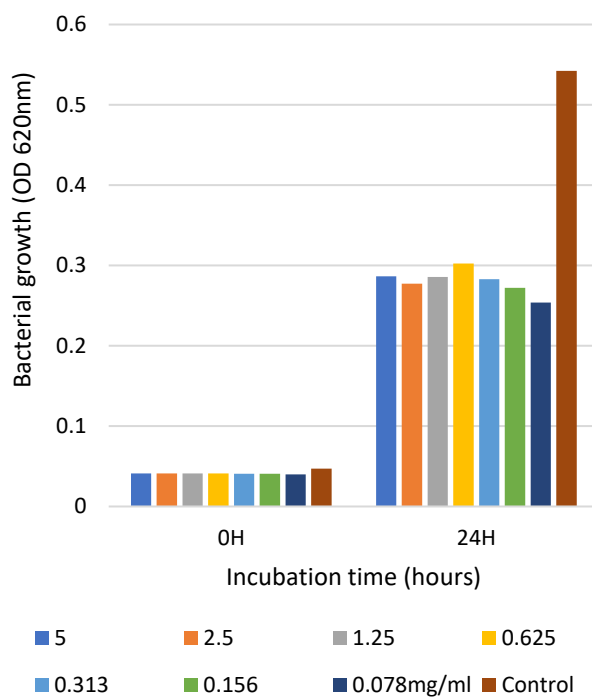
L. garviae NP30 Surfuctant
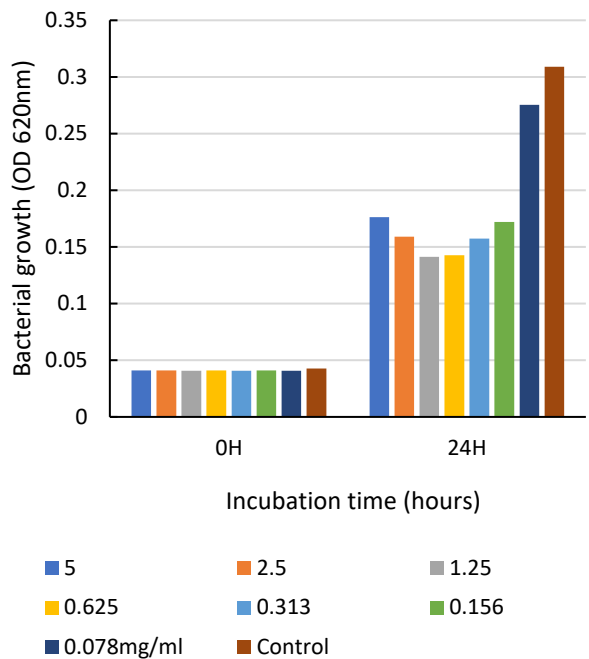
L. garvieae D60

L. garviae D60 Surfuctant
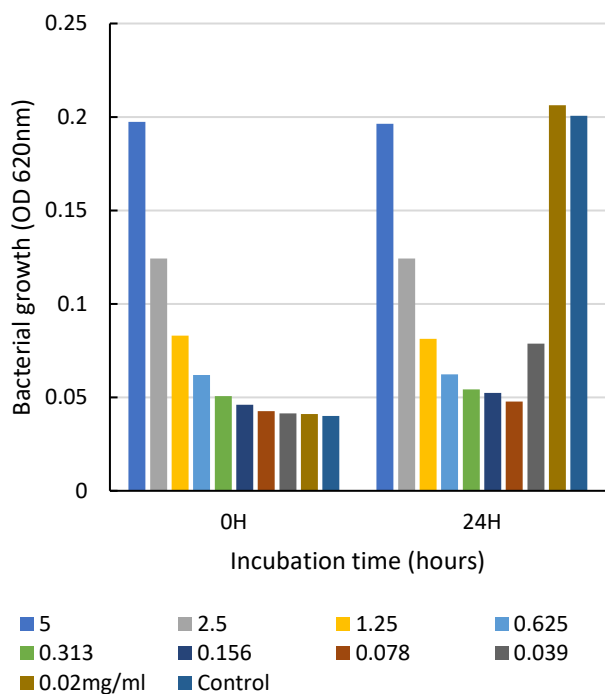
S. iniae NP30

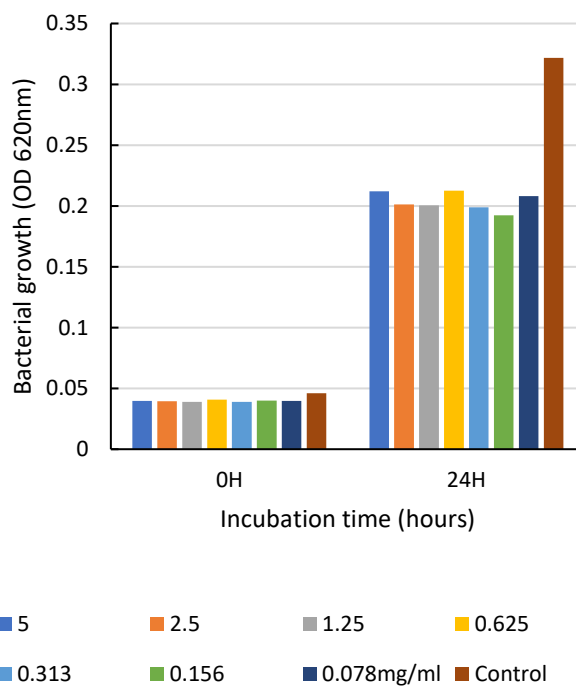Bacterial growth (OD 620nm)

Incubation time (hours)

0H   24H

■ 5   ■ 2.5   ■ 1.25   ■ 0.625
■ 0.313   ■ 0.156   ■ 0.078   ■ 0.039

S. iniae NP30 Surfuctant

Bacterial growth (OD 620nm)

Incubation time (hours)

0H   24H

■ 5   ■ 2.5   ■ 1.25   ■ 0.625
■ 0.313   ■ 0.156   ■ 0.078mg/ml   ■ Control

S. iniae D60

Bacterial growth (OD 620nm)

Incubation time (hours)

0H   24H

■ 5   ■ 2.5   ■ 1.25   ■ 0.625
■ 0.313   ■ 0.156   ■ 0.078   ■ 0.039
■ 0.02mg/ml   ■ Control

S. iniae D60 Surfuctant

Bacterial growth (OD 620nm)

Incubation time (hours)

0H   24H

■ 5   ■ 2.5   ■ 1.25   ■ 0.625
■ 0.313   ■ 0.156   ■ 0.078mg/ml   ■ Control
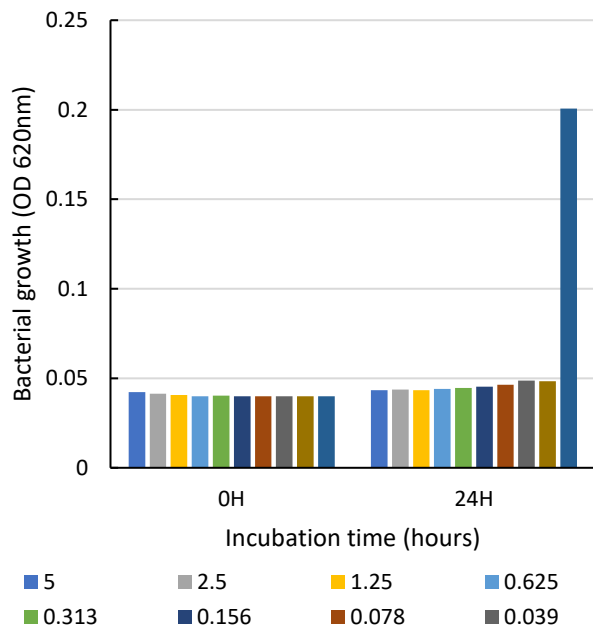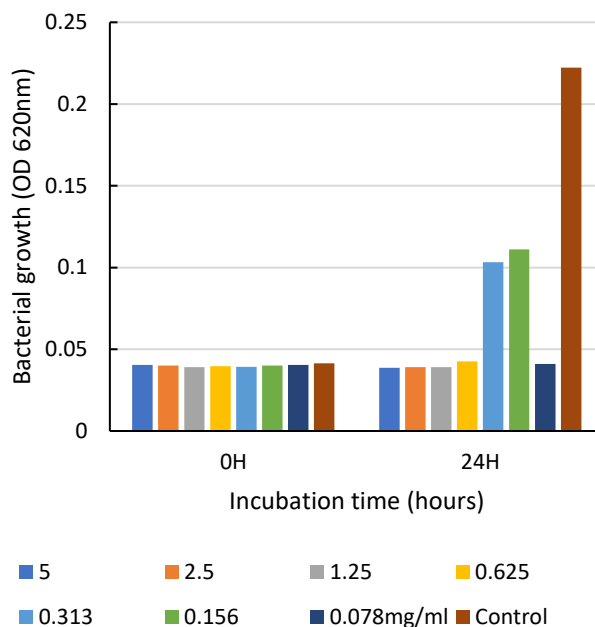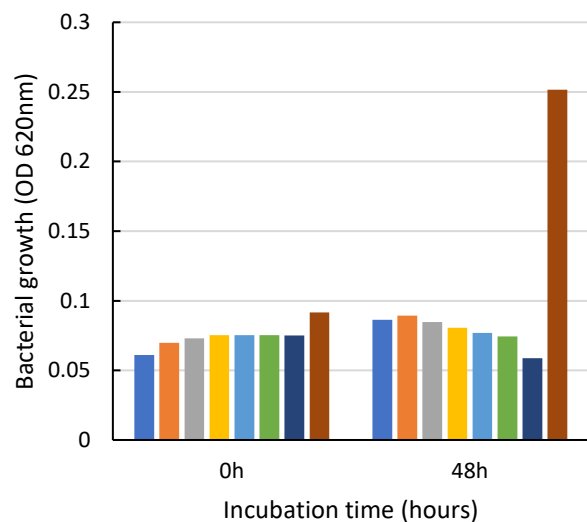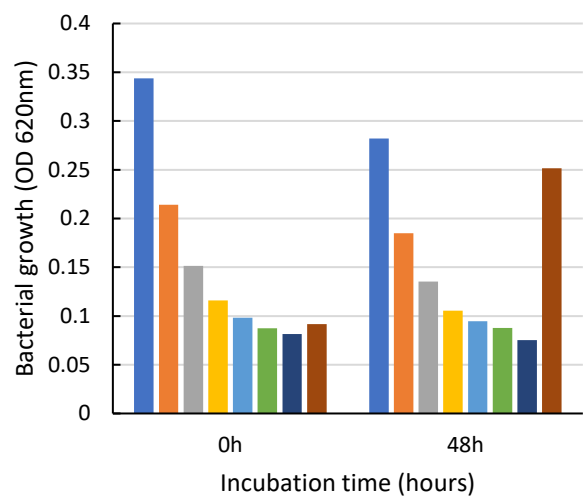
T. maritimum NP30
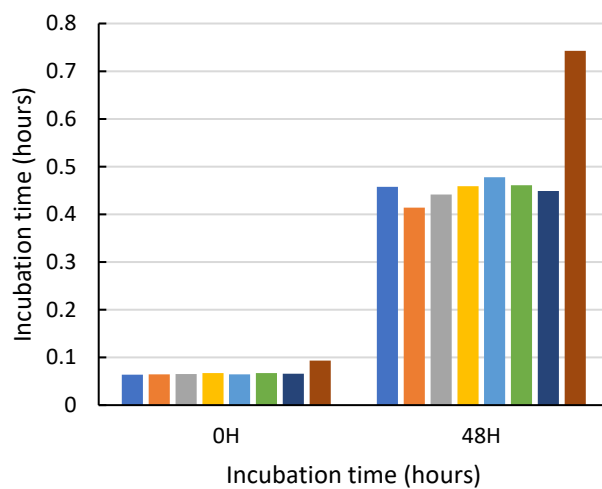

T. maritimum NP30 Surfuctant
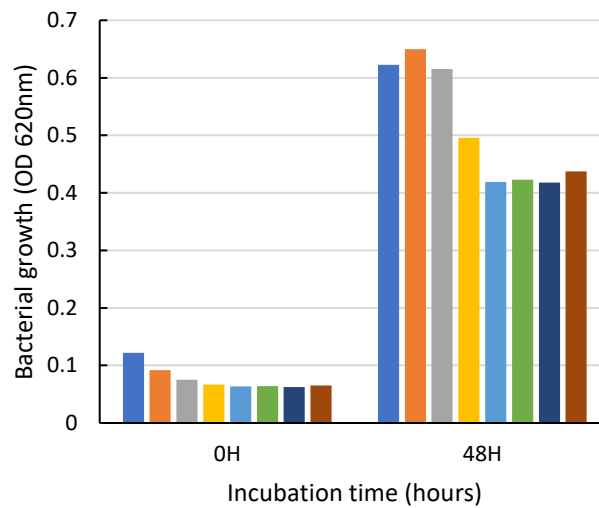
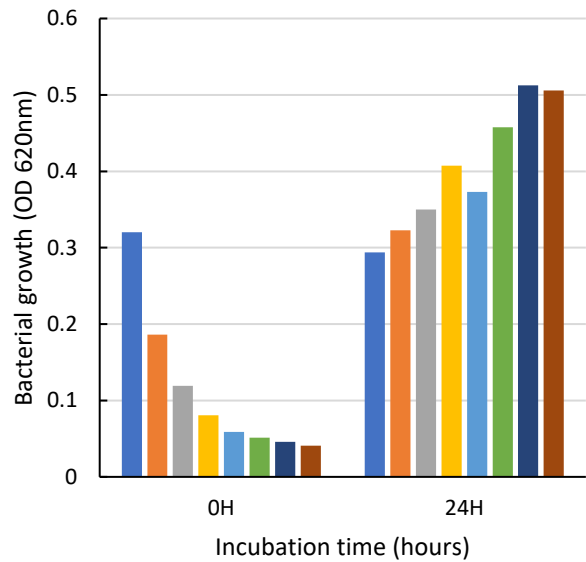

T. maritimum D60

T. maritimum D60 Surfuctant

V. rotiferanus NP30

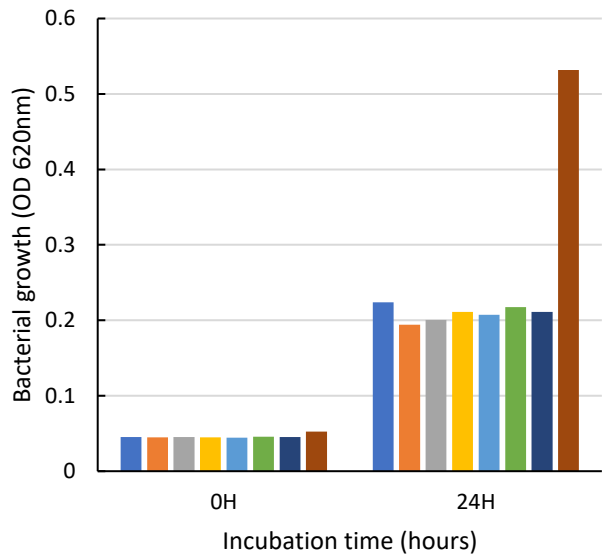Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

V. rotiferanus NP30 Surfuctant

Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

V. rotiferanus D60

Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

V. rotiferanus D60 Surfuctant

Bacterial growth (OD 620nm) vs Incubation time (hours)

Legend: 5, 2.5, 1.25, 0.625, 0.313, 0.156, 0.078mg/ml, Control

F. maritimus NP30

F. maritimus D60

V. parahemalyticus NP30

V. parahemalyticus D60
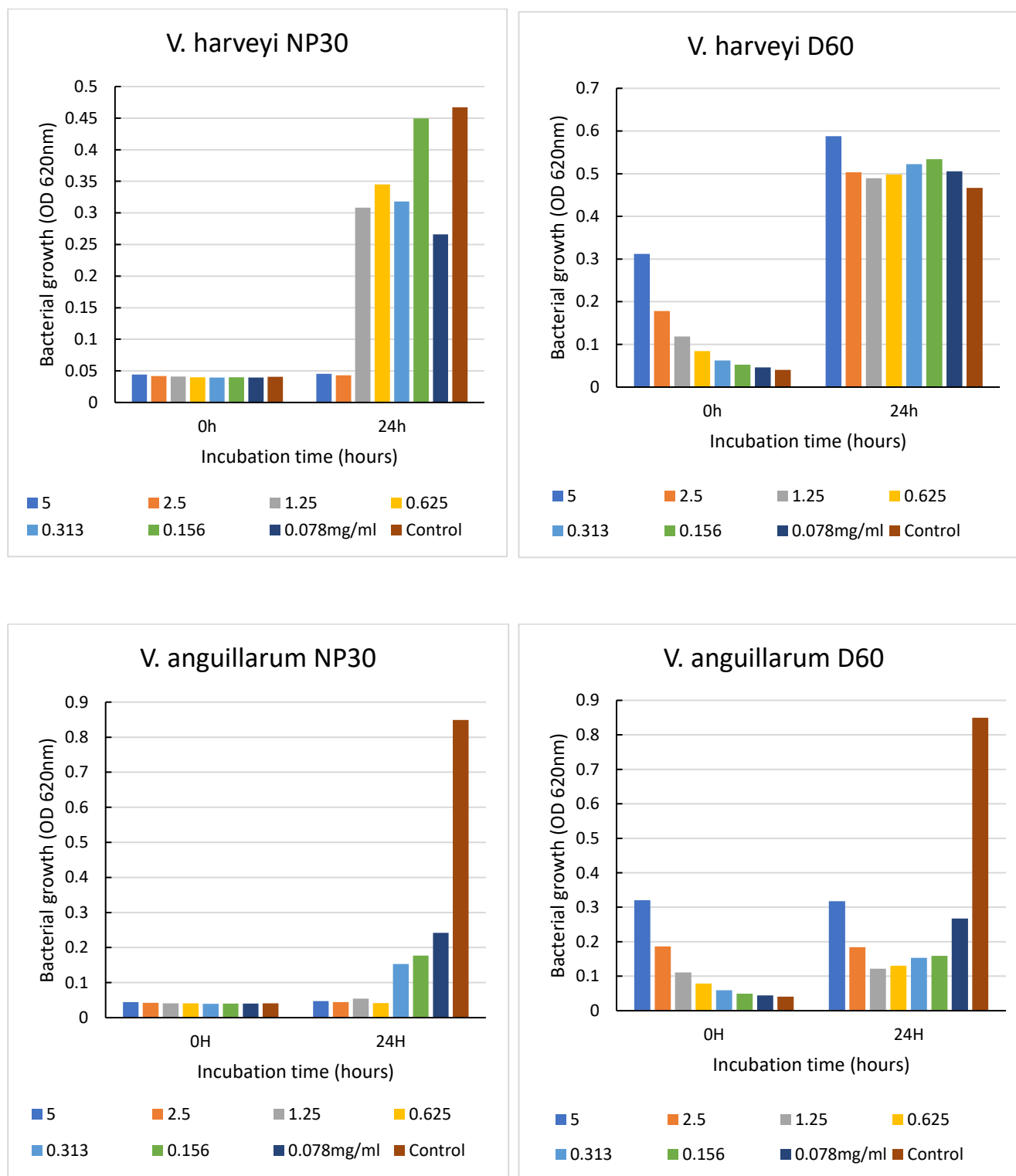
Figure S1: Bacteria growth before (0H) and after incubation (24H/48H or 96H) of MIC assays for each bacteria strain using the isobutyl-cyanoacrylate nanoparticles (D60 & NP30) and their respective dispersants.
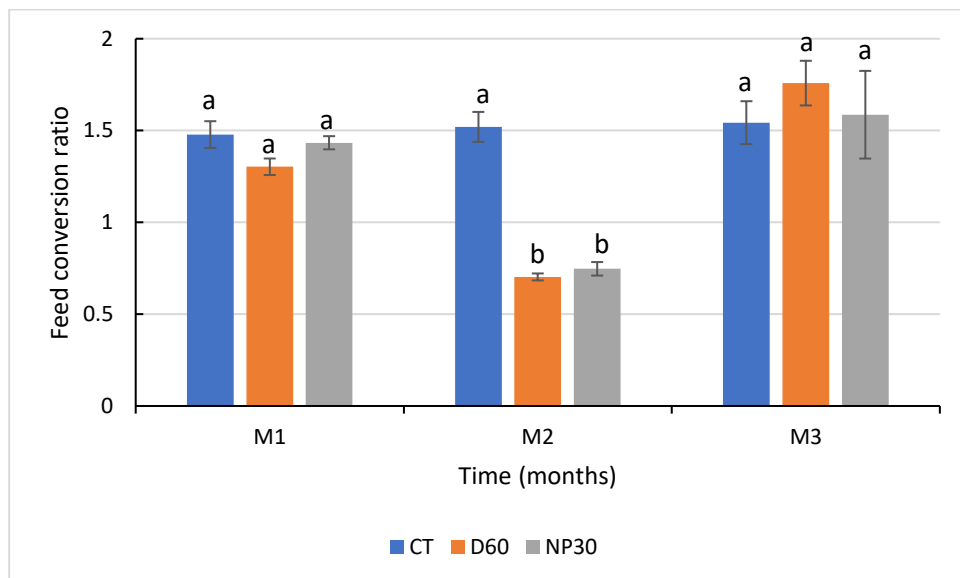
Figure S2: Monthly feed conversion ratio per treatment where different letter superscripts, *a*, and *b*, indicate significant differences between treatments and or sampling time ($P < 0.05$). CT = Control group; M1, M2 & M3 = Months 1,2 & 3. All data were expressed as means ± SEM, n = 2.