# Supporting Information:

## Effects of short-term exposure to linear anionic surfactants (SDBS, SLS and SDS) on anammox biomass activity

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### Batch tests

Batch tests lasted for 16 hours and liquid samples were obtained using a sterile syringe and purged through 0.22 μm pore size membranes for $NH_4$-N, $NO_2$-N and

23 $NO_3$-N measurements at 0, 3, 5, 7, 12, 16 h, respectively. Total nitrogen contained
24 $NH_4$-N, $NO_2$-N and $NO_3$-N. Two kinds of widely applied linear anionic surfactants,
25 sodium dodecyl benzene sulfonate (SDBS), sodium lauryl sulfate (SLS) and sodium
26 dodecyl sulfonate (SDS) were selected during the batch tests.
27
28 **Recovery tests**
29 Recovery tests were carried out with the anammox biomass exposed to SLS and SDS
30 and lasted for 16 hours. Liquid samples were obtained using a sterile syringe and
31 purged through 0.22 μm pore size membranes for $NH_4$-N, $NO_2$-N and $NO_3$-N
32 measurements at 0, 3, 5, 7, 12, 16 h, respectively. Total nitrogen contained $NH_4$-N,
33 $NO_2$-N and $NO_3$-N.
34

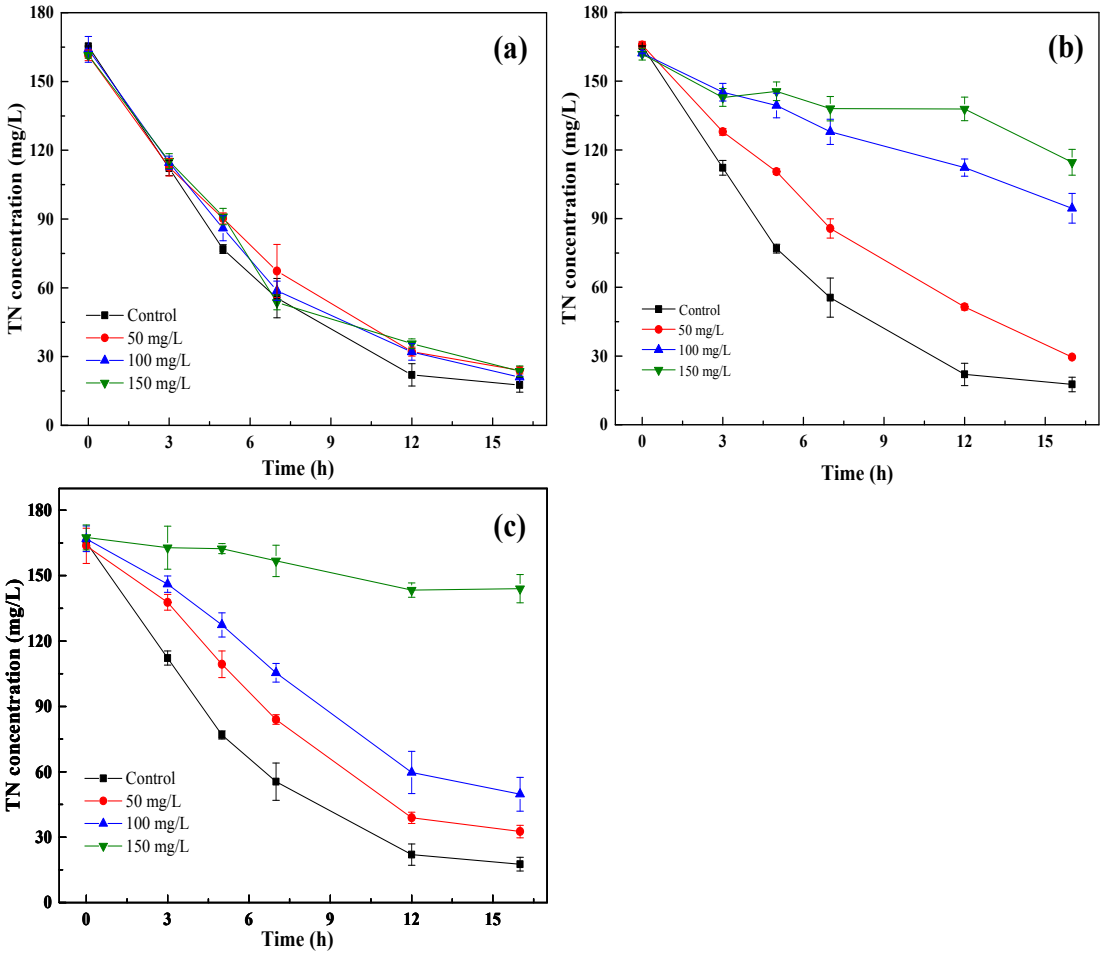


**Fig. S1** Comparison of TN removal performance of anammox biomass exposed to different dosages of SDBS (a), SLS (b) and SDS (c) during the batch tests. Error bars represent standard deviations of triplicate tests.

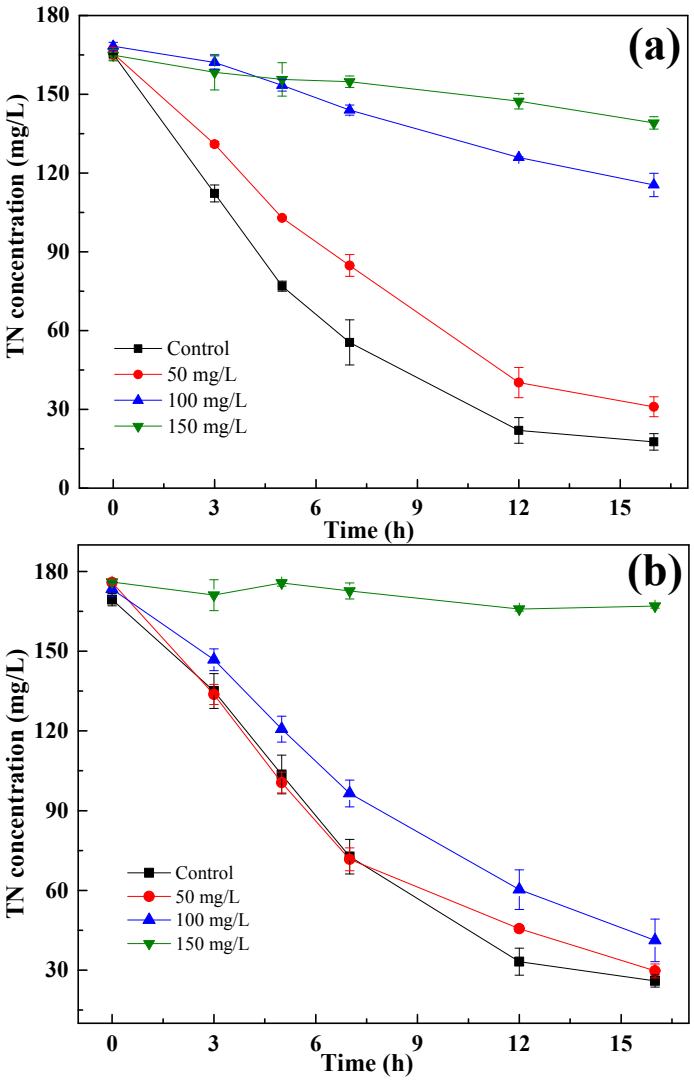


**Fig. S2** Comparison of TN removal performance of anammox biomass exposed to different dosages of SLS (a) and SDS (b) during the recovery tests. Error bars represent standard deviations of triplicate tests.