

Experimental Workflow

Primer and probe
design

PCR condition
optimization

Primer validation by
Sanger sequencing

Time course
experiment

RNA extractions with
DNAase

cDNA synthesis with
reverse transcriptase

qPCR with multiplexed
assays

dPCR experiments

Figure 1.
Structure of
6:2 FTSA, a
sulfonated
PFAS.

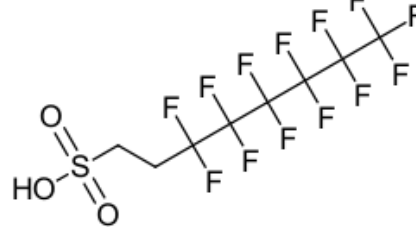


Figure 2.
Amplification of
snfG and 16S rRNA
gene fragments
using PCR
visualized using gel
electrophoresis.

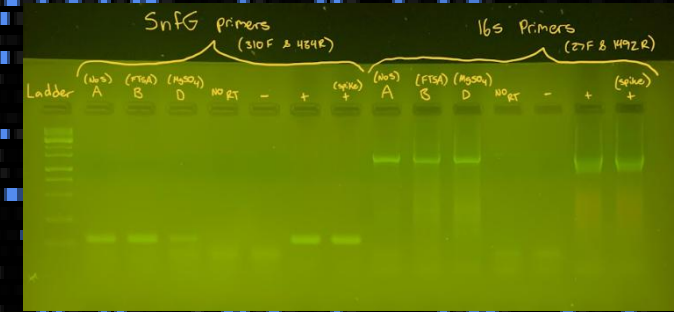


Figure 3. Alignment of Sanger
results with NB4 genome
showing 100% identity.

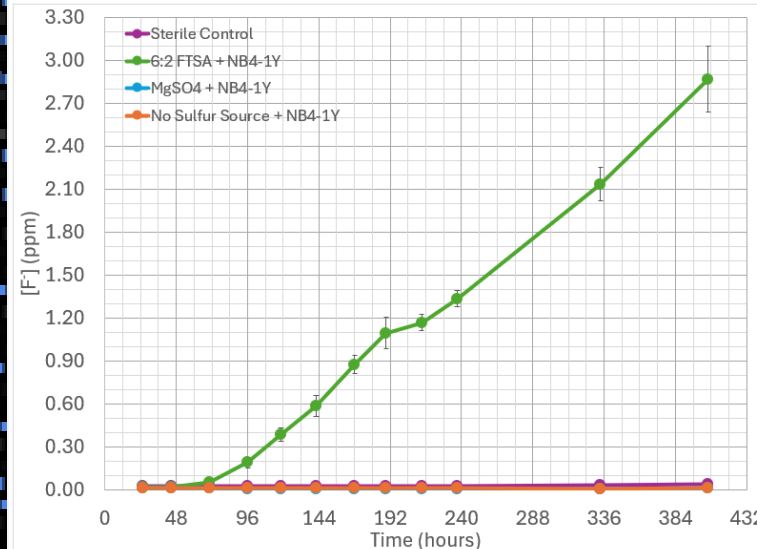
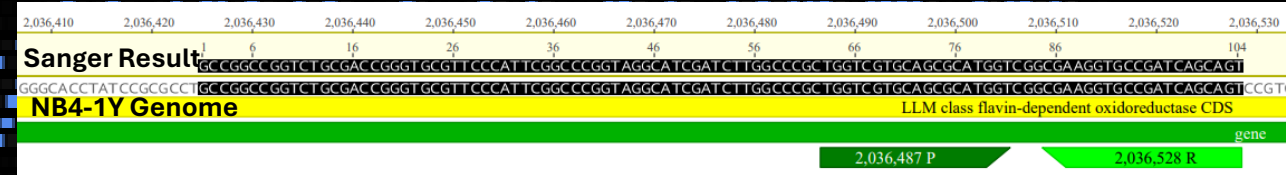


Figure 4. Fluoride in NB4-1Y cultures exposed
to different sulfur conditions over time (n = 3).

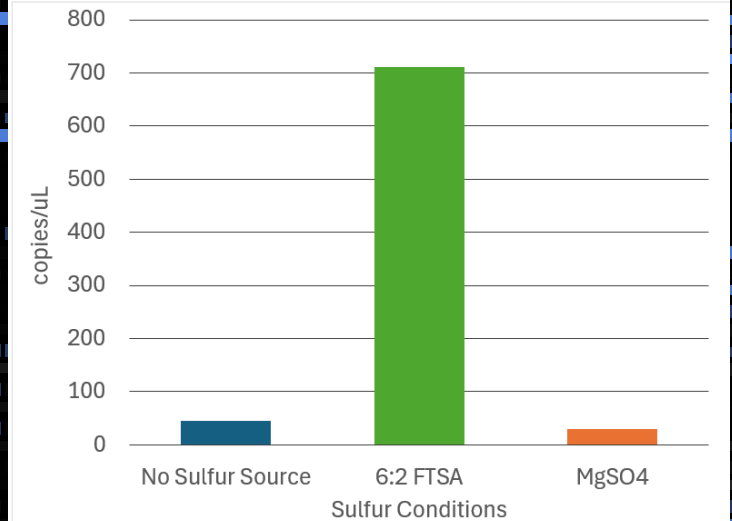


Figure 5. Quantification of LLM class flavin-
dependent oxidoreductase in NB4-1Y
cultures using chip digital PCR.