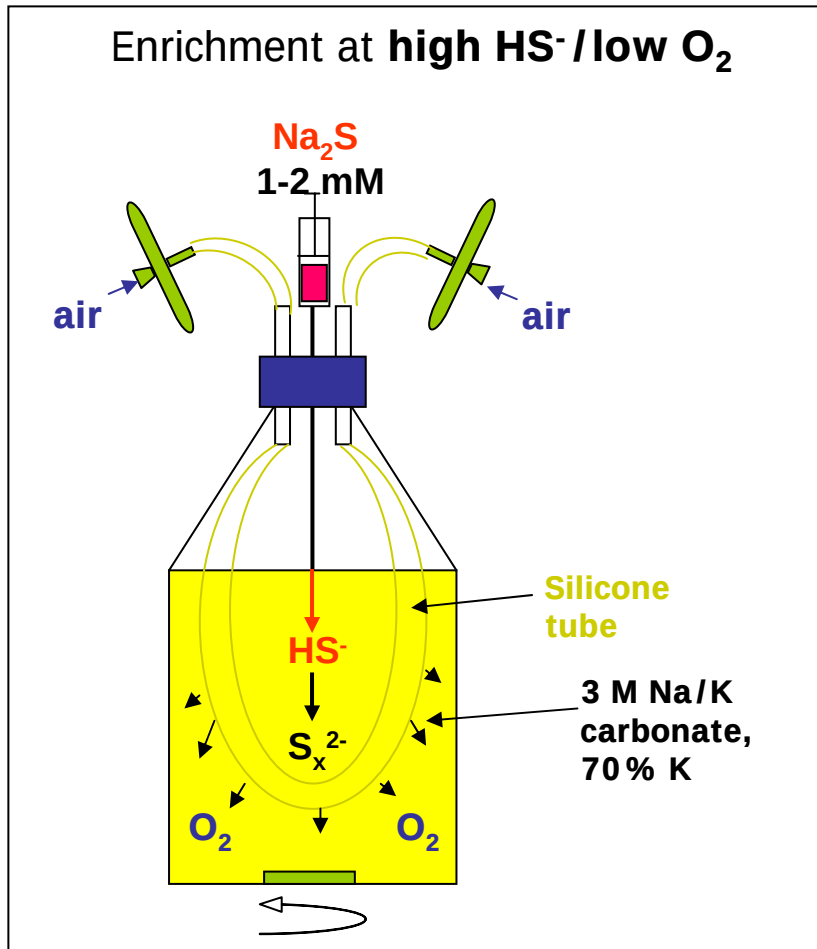


Lab-scale sulfide-oxidizing bioreactors

Inoculum: sediments from hypersaline soda lake

“Silicon-loop” (1L) reactor in TU Delft

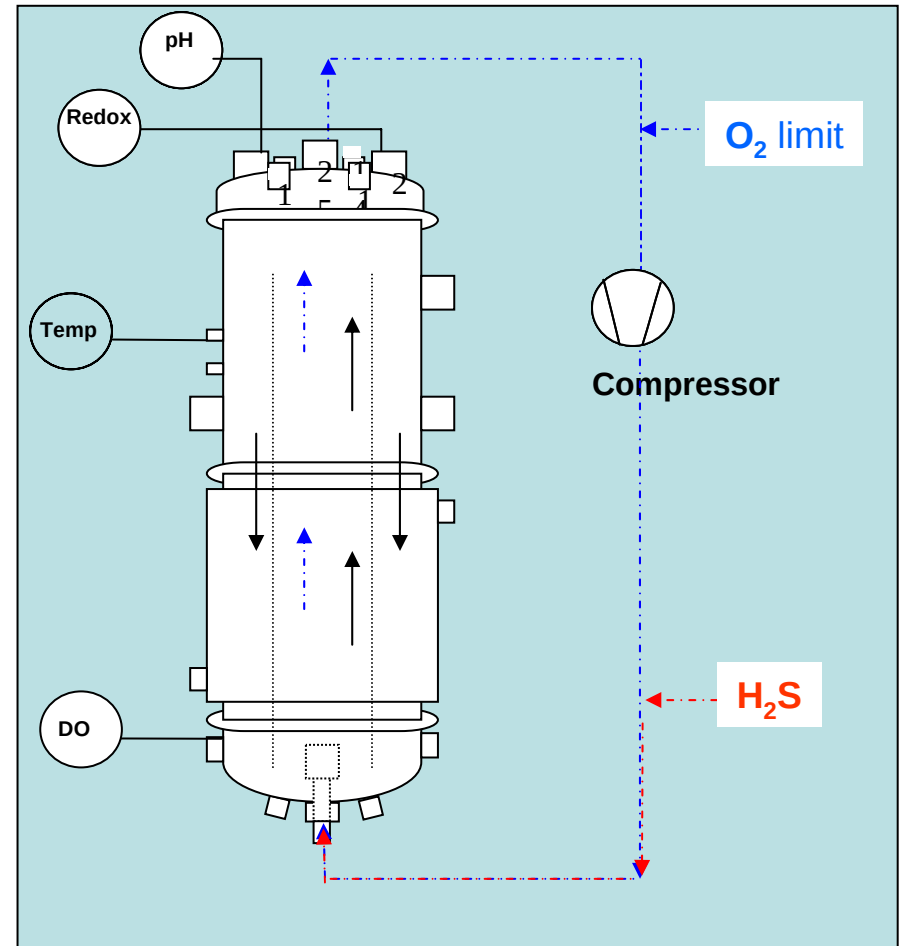
3 M Na carbonate, pH 10.2



Supplementary Figure 1

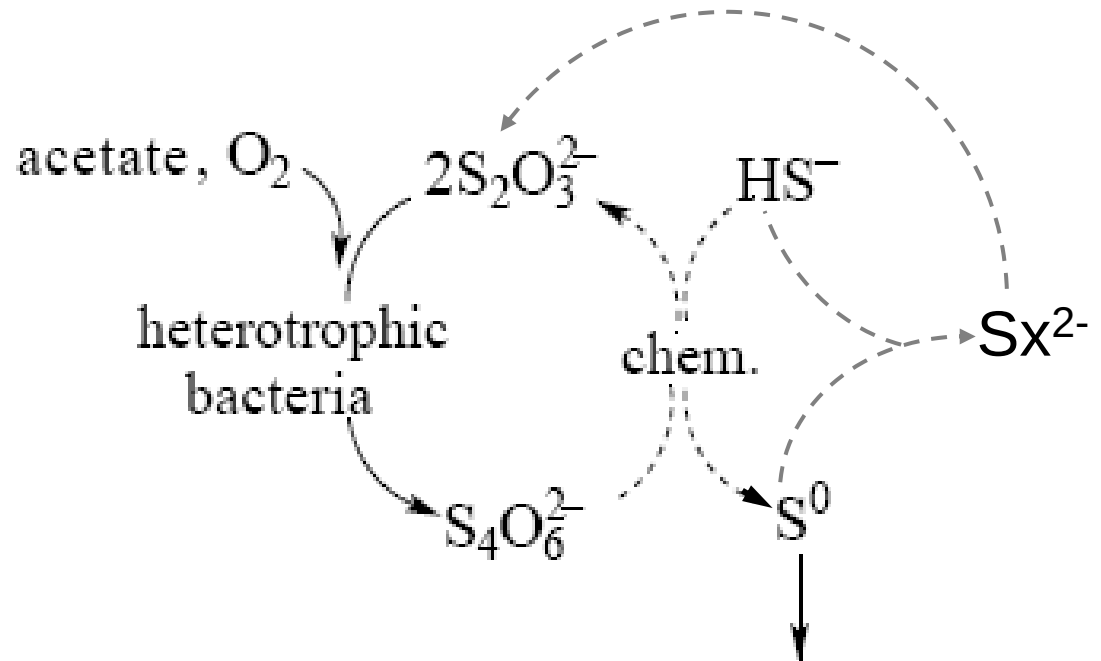
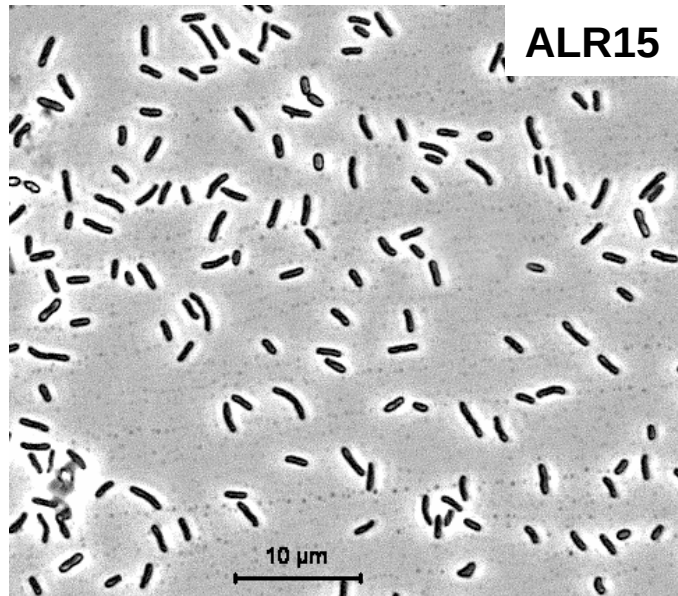
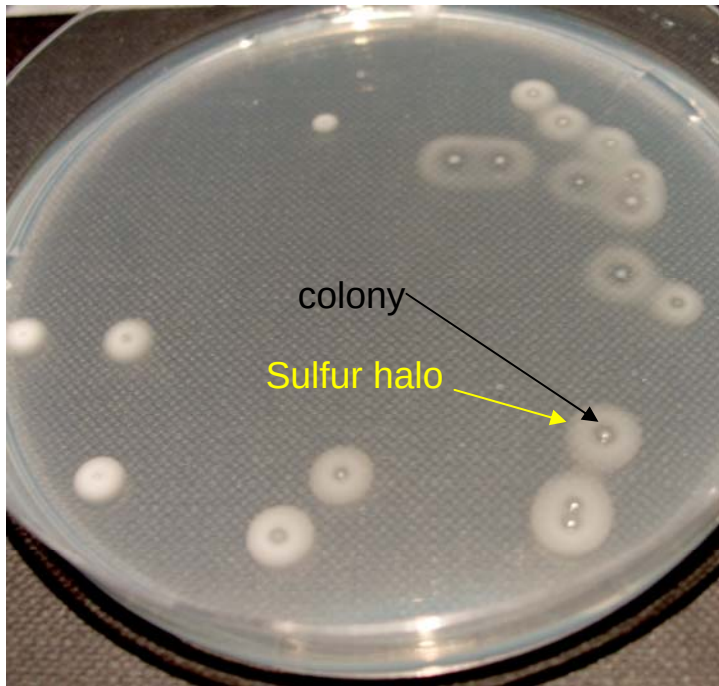
Lab-scale (5 L) reactor in WU

2 M K/Na carbonate, K⁺= 70%, pH 8.75-10



ALR 15 – a heterotrophic tetrathionate-forming natronophile (*Halomonas*)

Phenomenon of extracellular sulfide oxidation



Supplementary Figure 2