Title: Influence of co-substrate on textile wastewater treatment and microbial community changes in the anaerobic biological sulfate reduction process

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Highlights

- Textile wastewater treatment performance was investigated with different co-substrates.
- Dye biodegradation and biotransformation enhanced with lactate as co-substrate.
- Sulfate removal significantly decreased under limited co-substrate concentration.
- Changes in microbial community structure were studied using bar-coded pyrosequencing
- Lactate as co-substrate showed the highest relative abundance of sulfate reducing bacteria