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Advanced oxidation of real sulfamethoxazole + trimethoprim formulations using different anodes and electrolytes

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Research highlights

- ▶ Mixture of drugs treated with an IrO₂-based, Pt or BDD anode and an air-diffusion cathode
- ▶ Larger degradation in sulfate medium: EO-H₂O₂ < EF < PEF < SPEF, regardless of the anode
- ▶ Quicker degradation using the BDD/air-diffusion cell in all methods
- ▶ Similar apparent rate constants for EF, PEF and SPEF due to main attack of •OH in the bulk
- ▶ Presence of Cl⁻: enhanced drug decay due to active chlorine, but slower mineralization

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