Antibacterial Activity of a Novel Oligosaccharide from *Streptomyces californics* against *Erwinia carotovora* subsp. *Carotovora*

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Supplementry data.

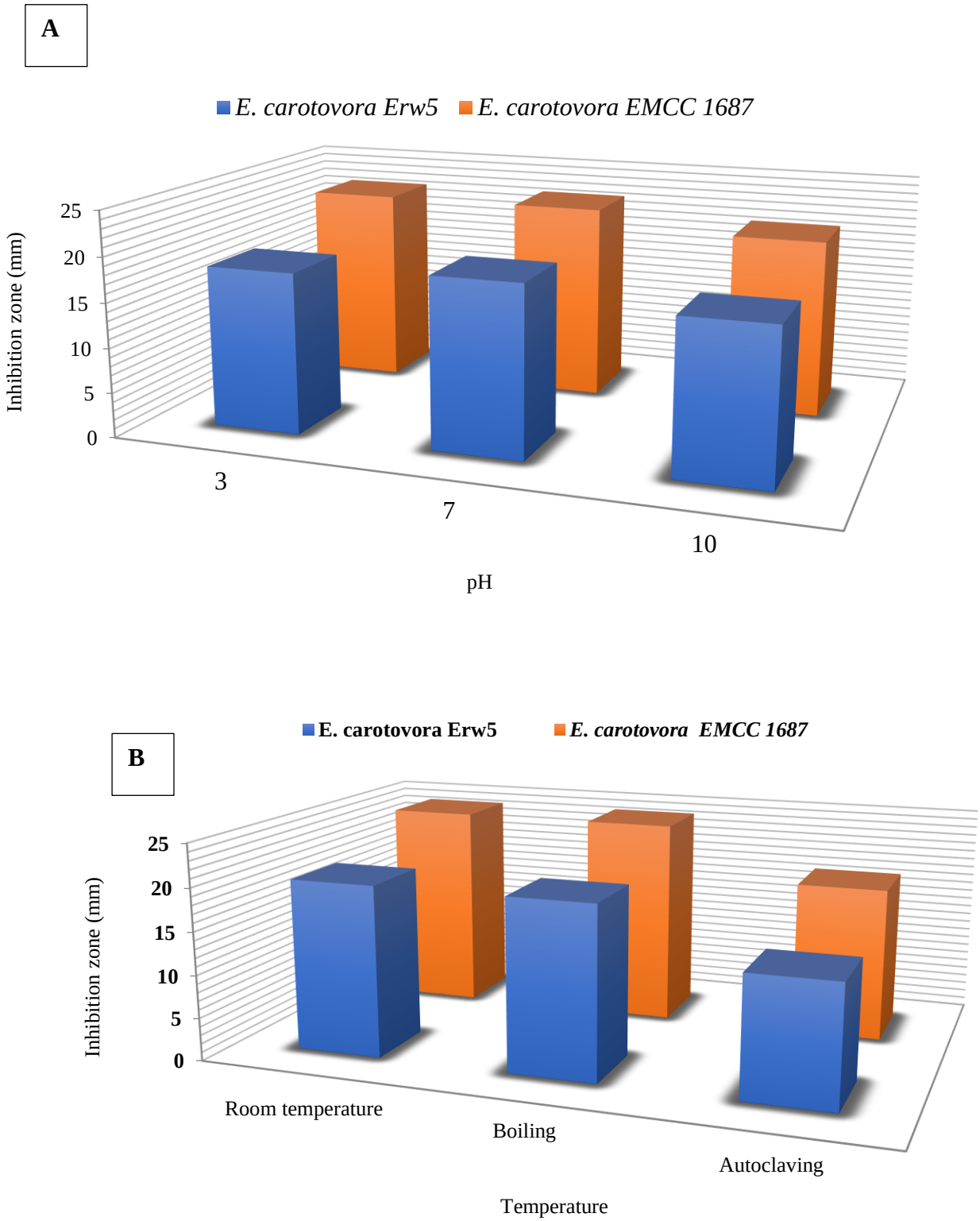


Figure S1: Effect different pH (A) and temperature (B) of *S. californics* (22/30a) filtrate on the antibacterial activity against *E. carotovora* Erw_5 and *E. carotovora* EMCC 1687.

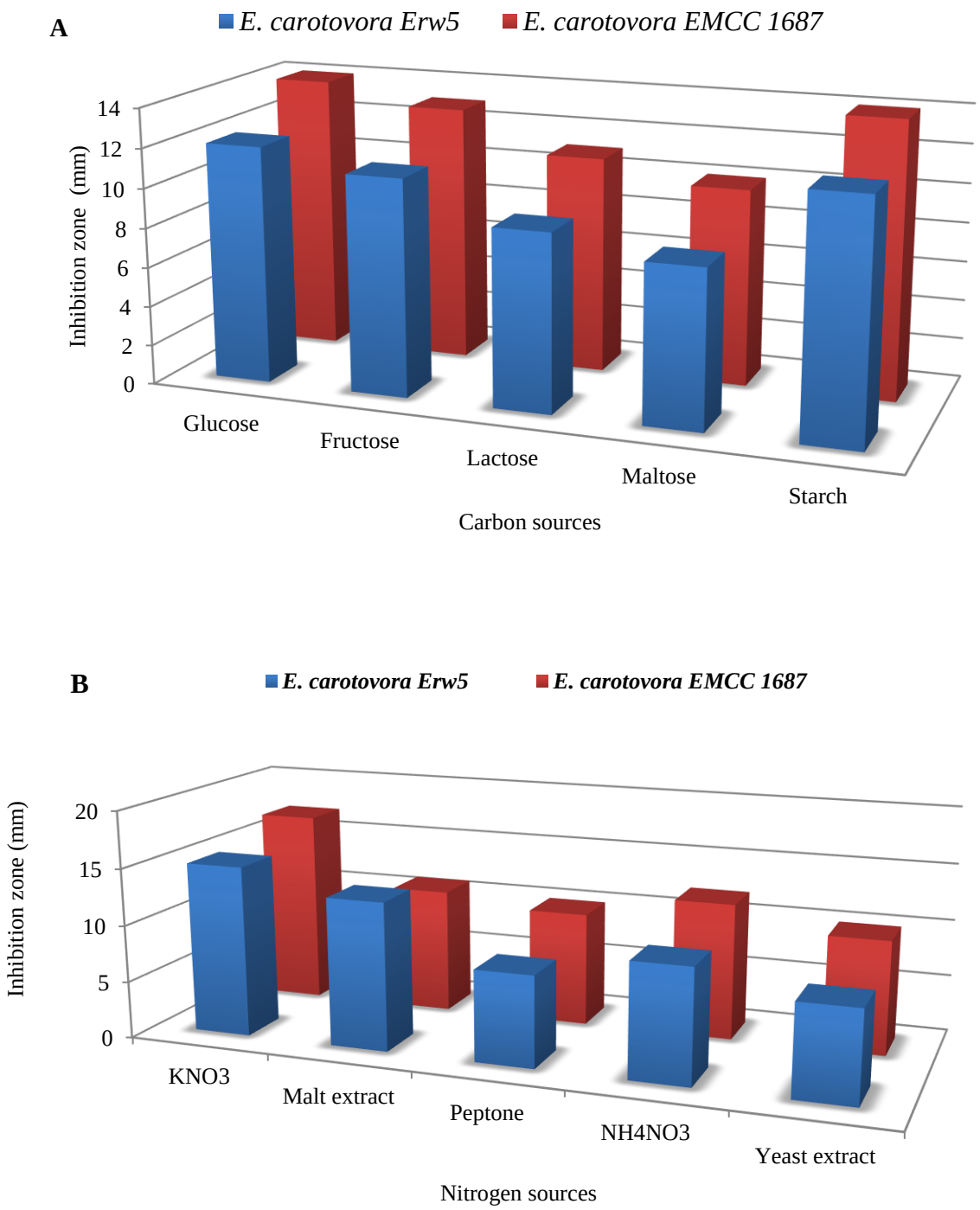
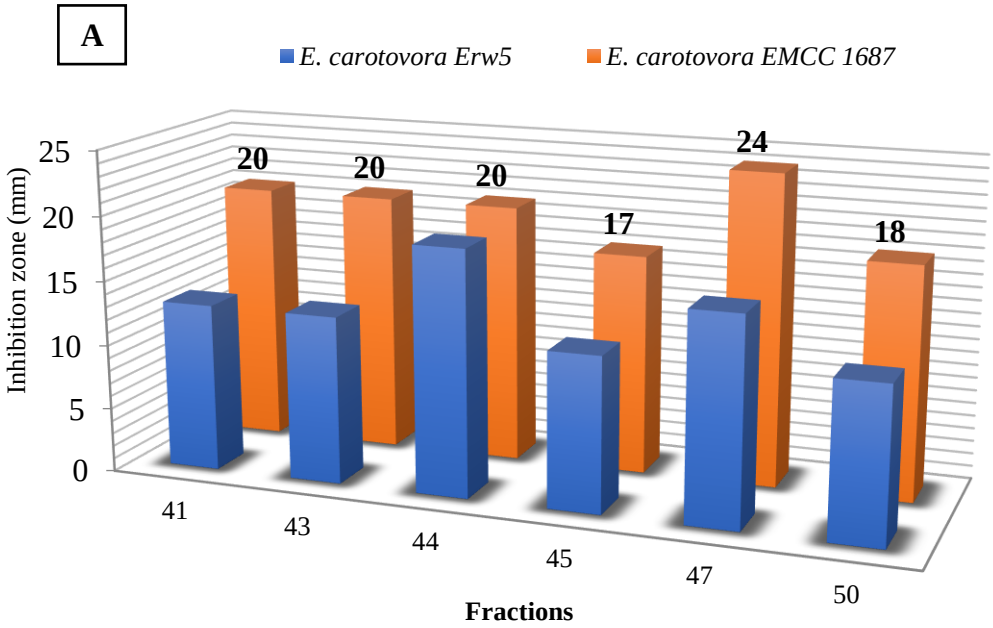


Figure S2: Effect of carbon and nitrogen sources at different temperature on the antibacterial activity from *S. californics* (22/30a) against of *E. carotovora* Erw_5 and *E. carotovora* EMCC 1687; A: carbon sources; B: nitrogen sources.



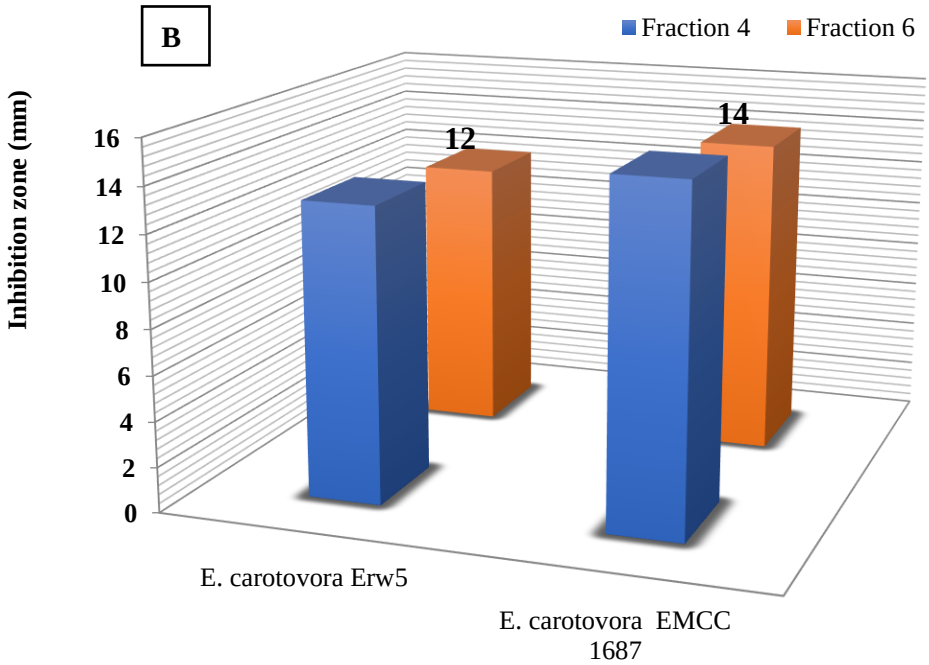


Figure S3: Assay of antibacterial activity of fractions of *S. californics* (22/30a) against *E. carotovora* Erw_5 and *E. carotovora* EMCC 1687. A: fraction 41-50; B: *E.* fraction 4 and 6.

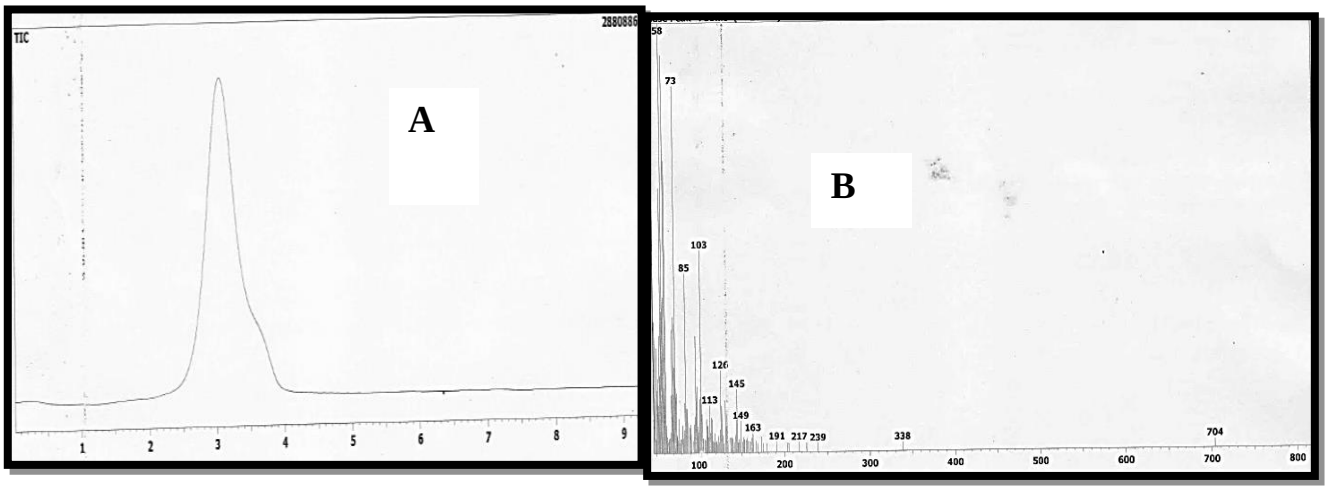


Figure S4: GC Chromatogram of fraction No. 6 (A), and Mass Spectrum of antibacterial agent fraction No. 6 [Ret. Time: 3.433] (B).