EFFICACY OF PEROXYACETIC ACID

TIME VS. CONCENTRATION VS. TEMPERATURE AGAINST BACTERIA, YEASTS, MOLDS, AND SPORES

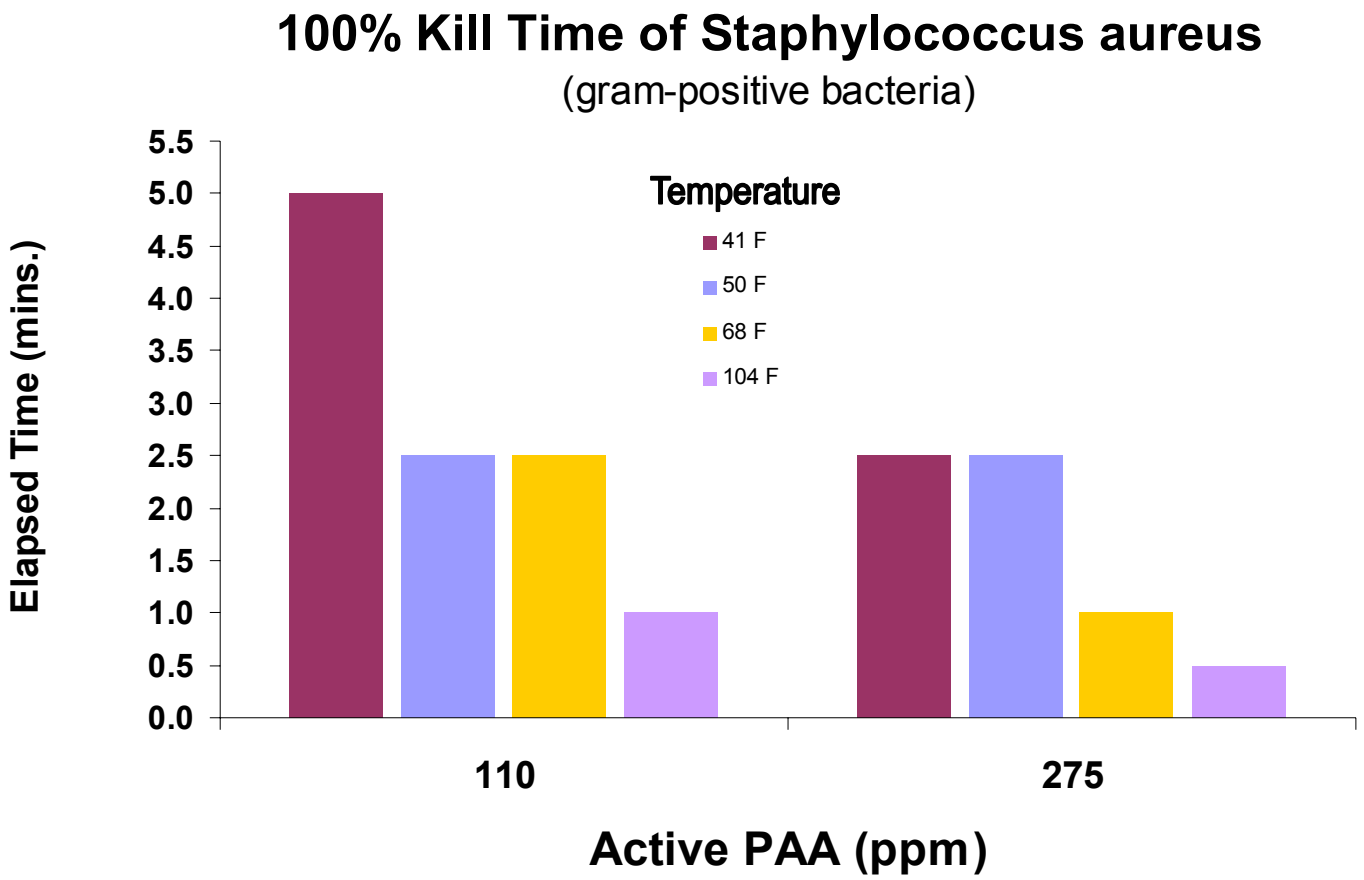
Intro

These charts include 6 bacteria species, 5 yeasts, 4 molds, and 6 types of spores. The 100% Kill Times represent the time to completely eradicate (100%) of each indicated species. This chart is unusual in that it does not report the time needed to reduce the given organism to particular log reductions, which typically would be 5-6 logs.

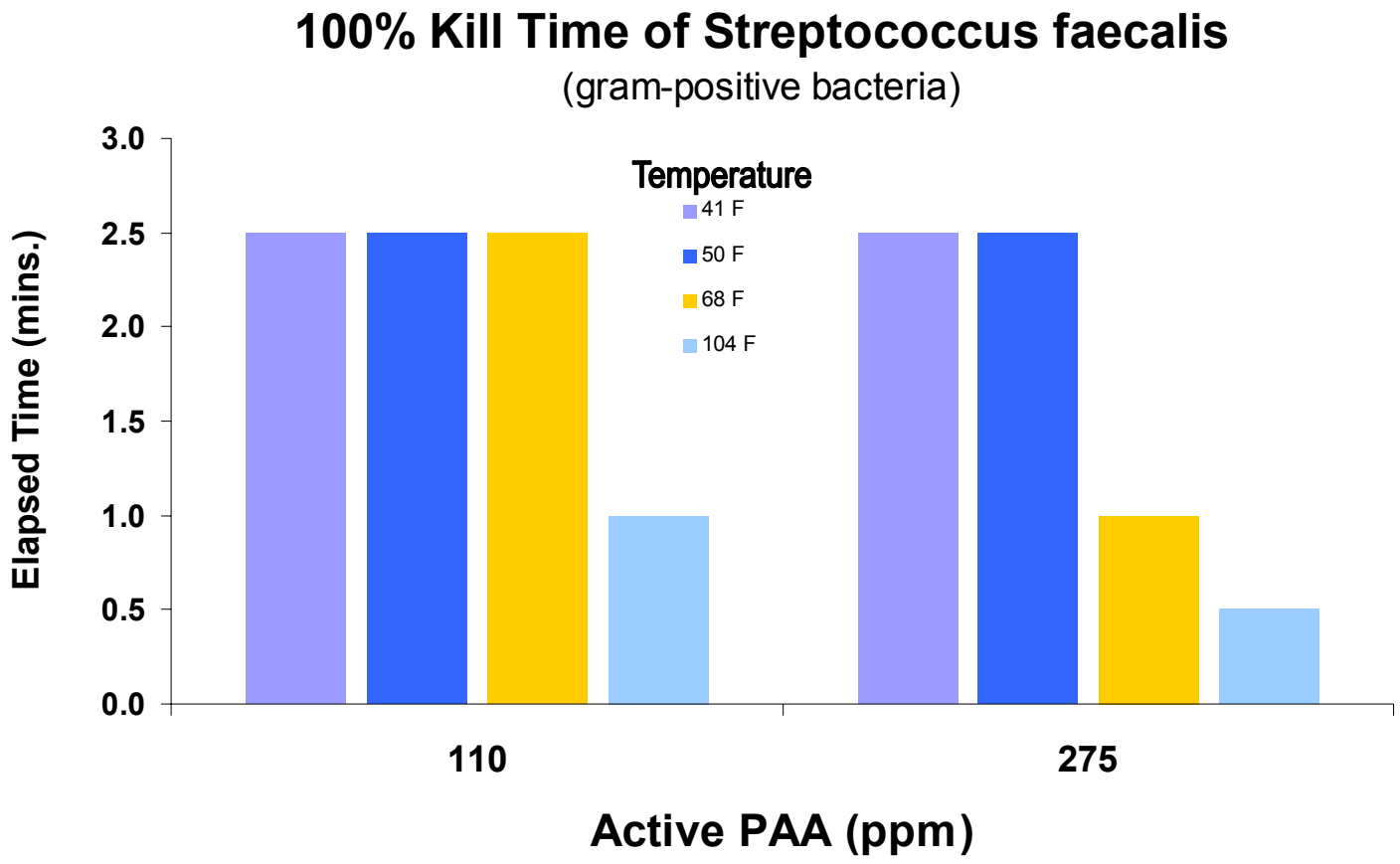
All challenge organisms started with levels of the challenge from 10^7 to 10^8 populations.

These challenge tests would be appropriate for peroxyacetic acid formulas containing approx. 5.5% PAA and 26-27% hydrogen peroxide. Other formulas may not perform to the standards and results reported herein.

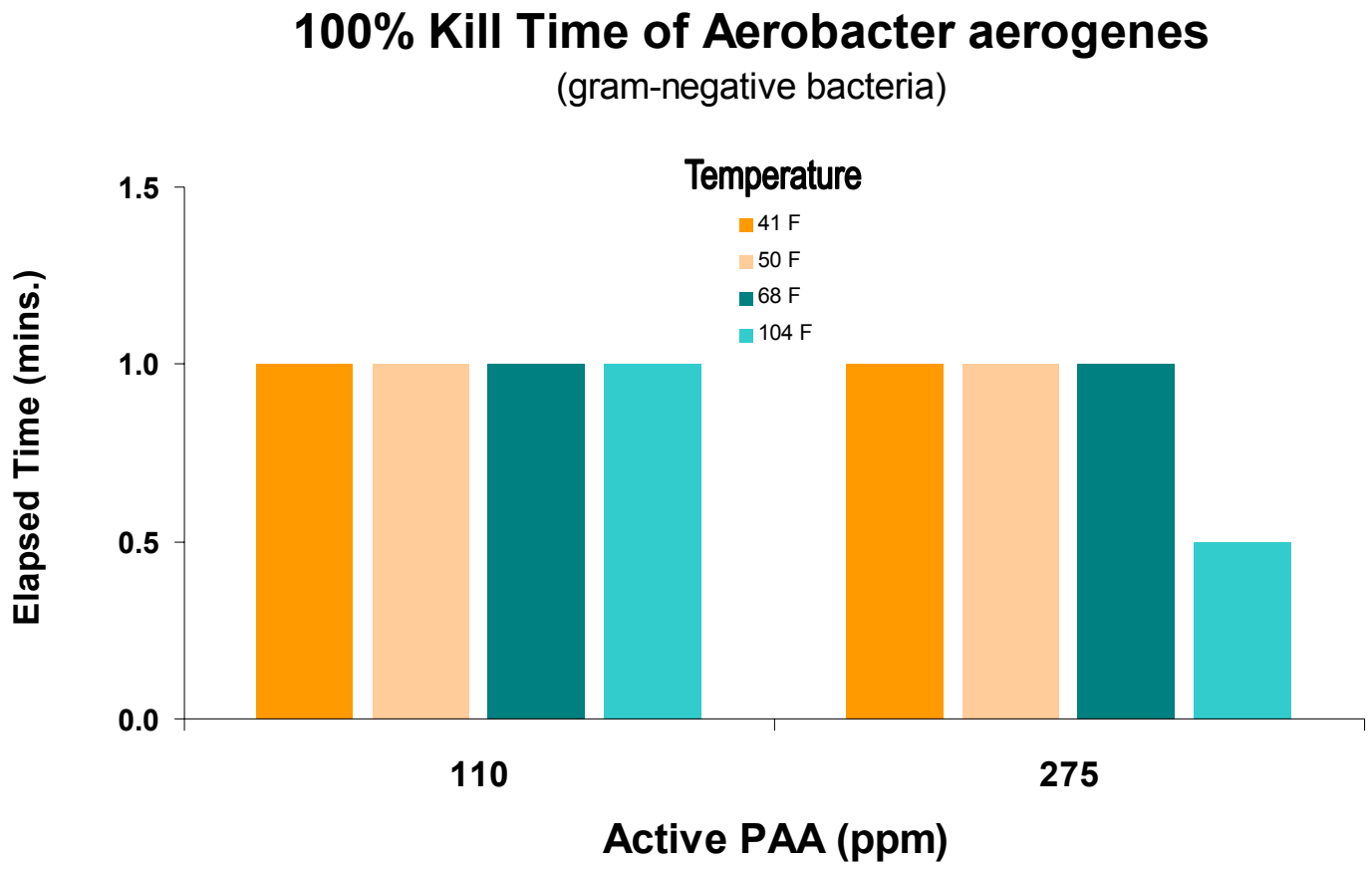
Staphylococcus aureus-GP bacteria



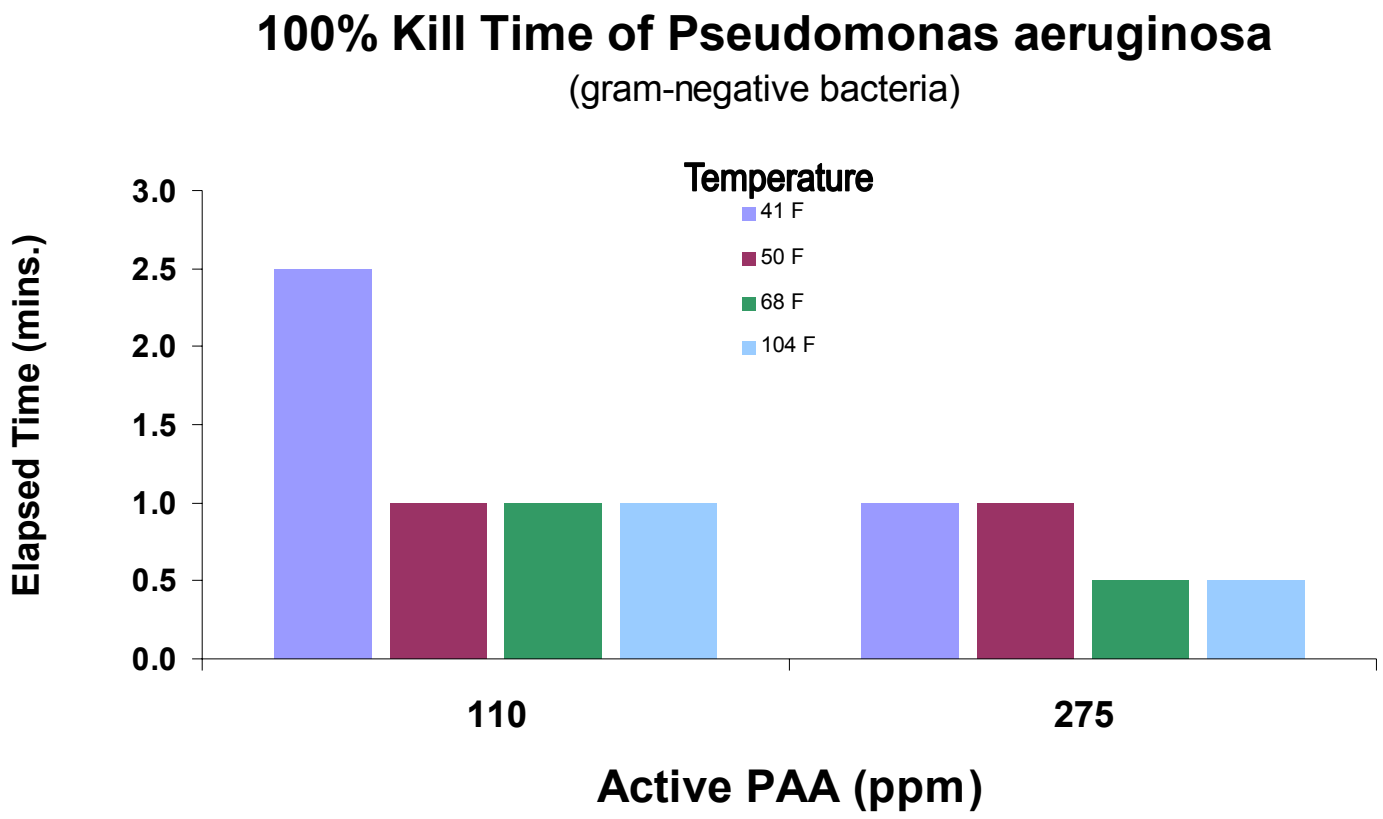
Streptococcus faecalis-GP bacteria



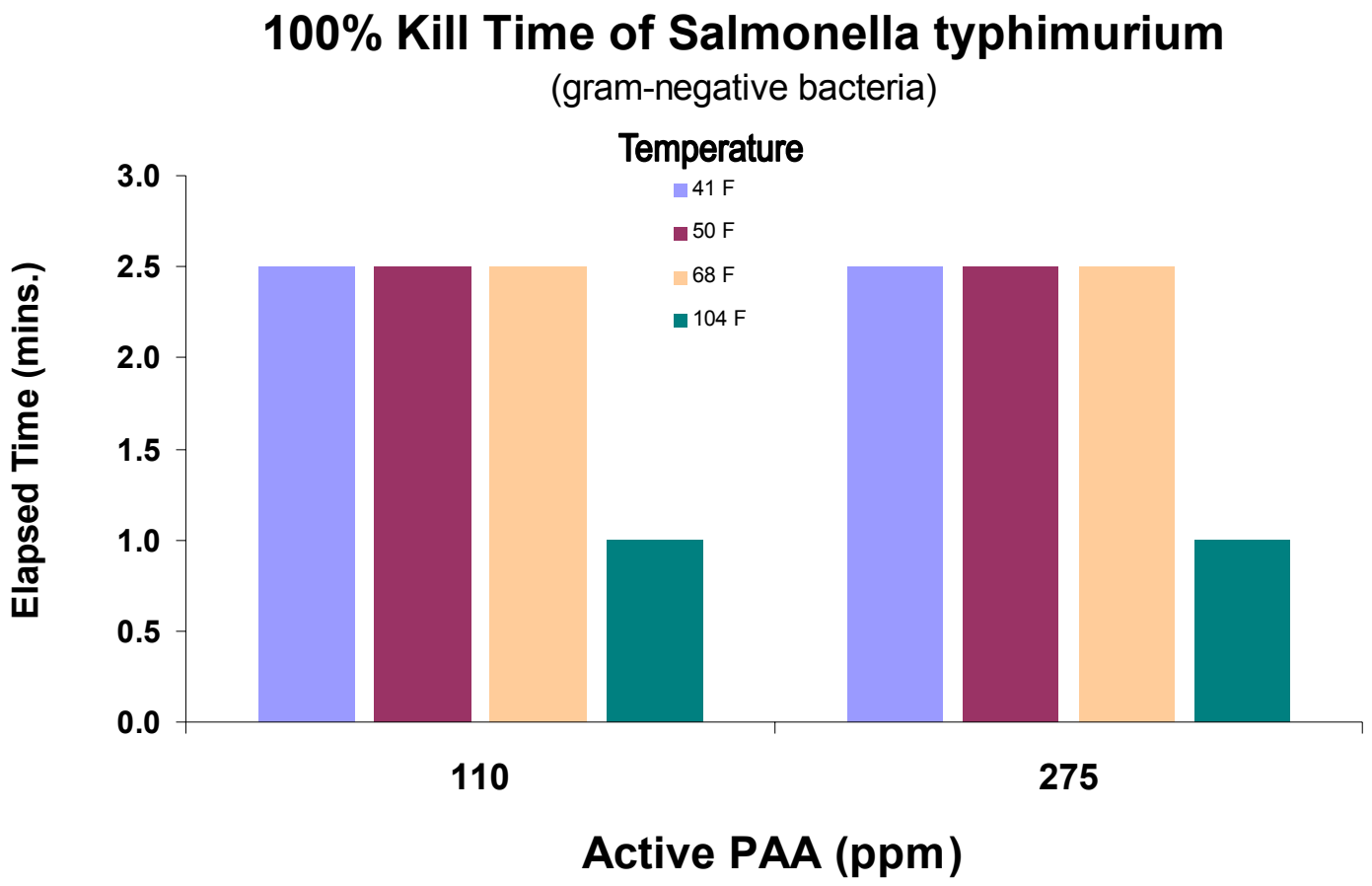
Aerobacter aerogenes-GN bacteria



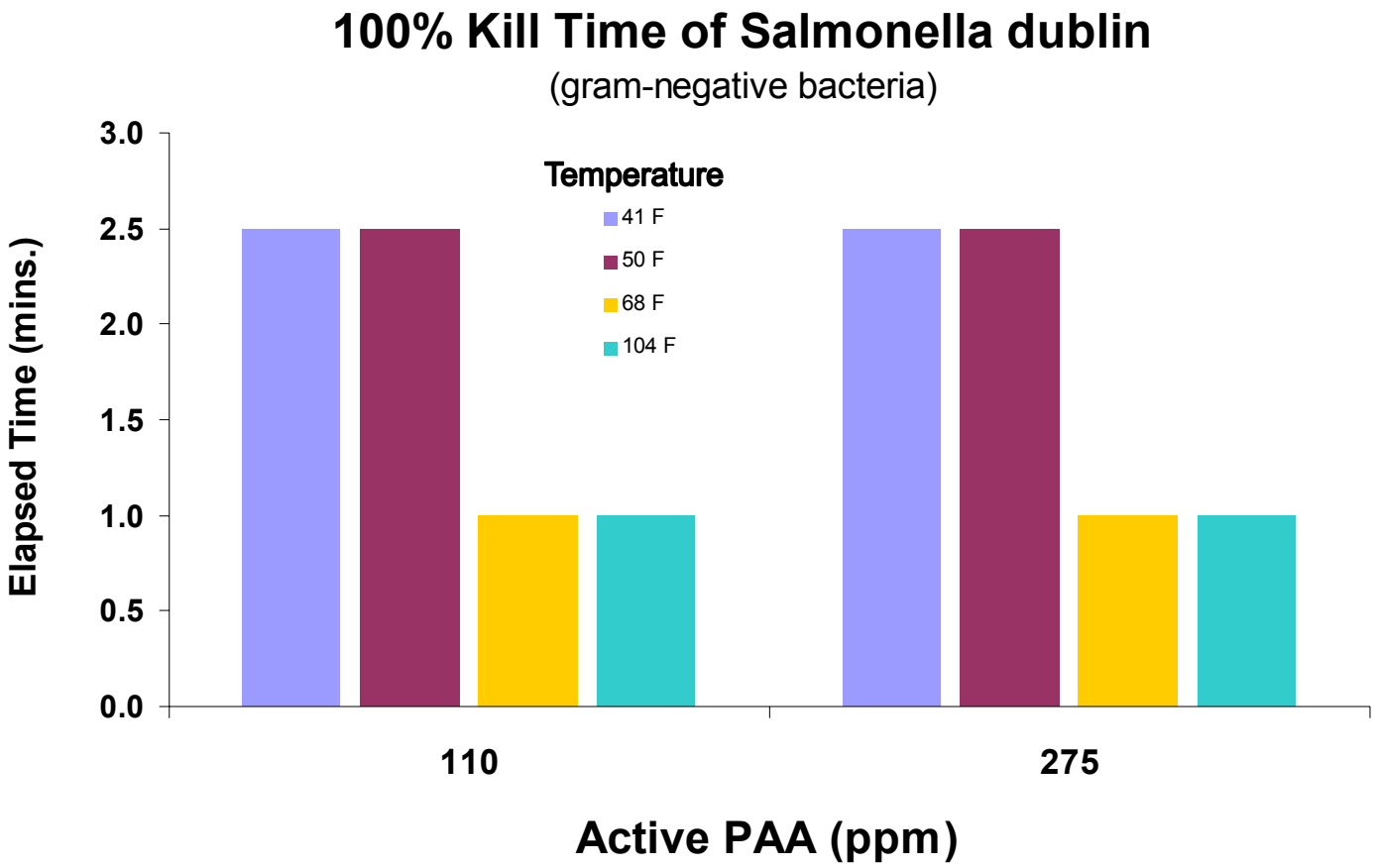
Pseudomonas aeruginosa-GN bacteria



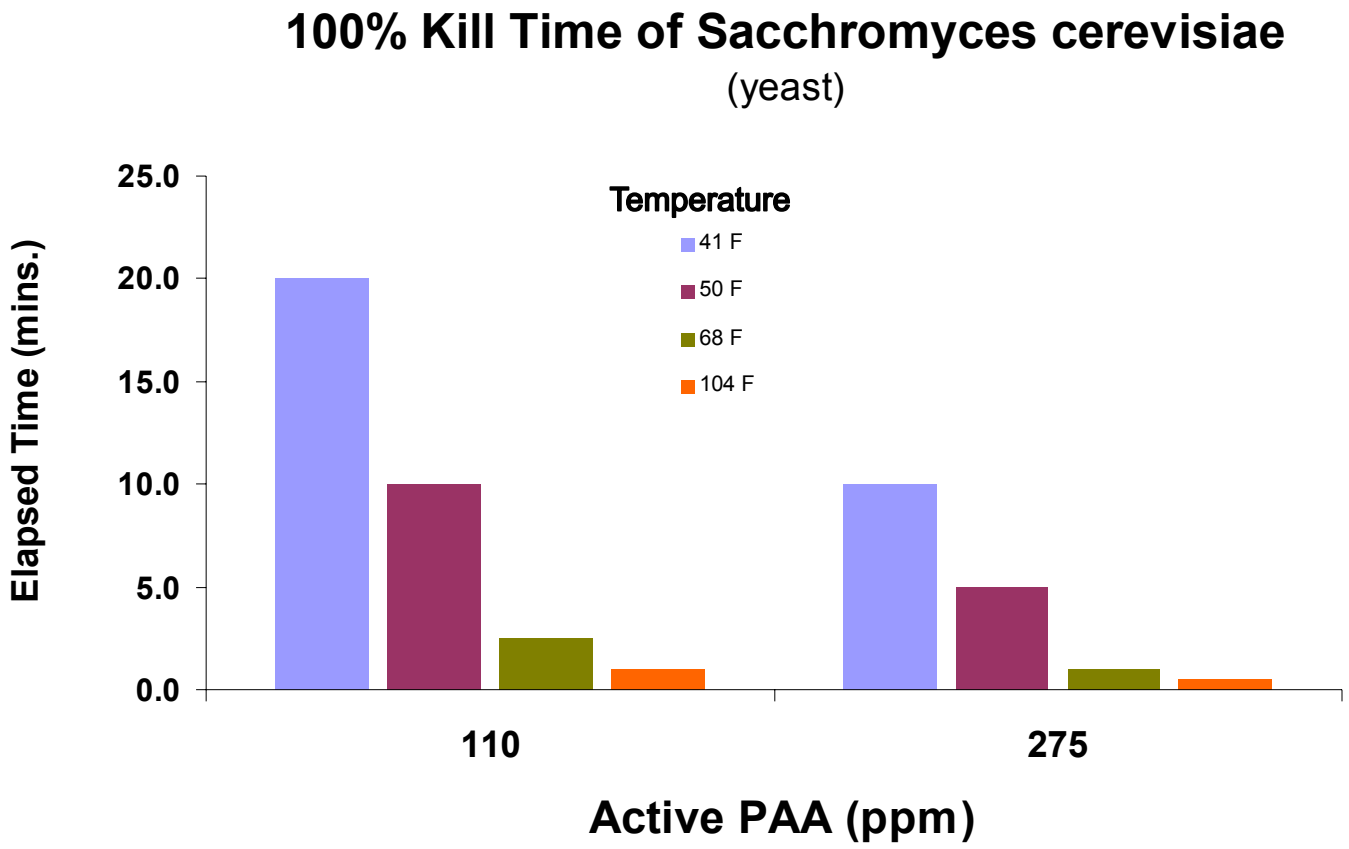
Salmonella typhimurium-GN bacteria



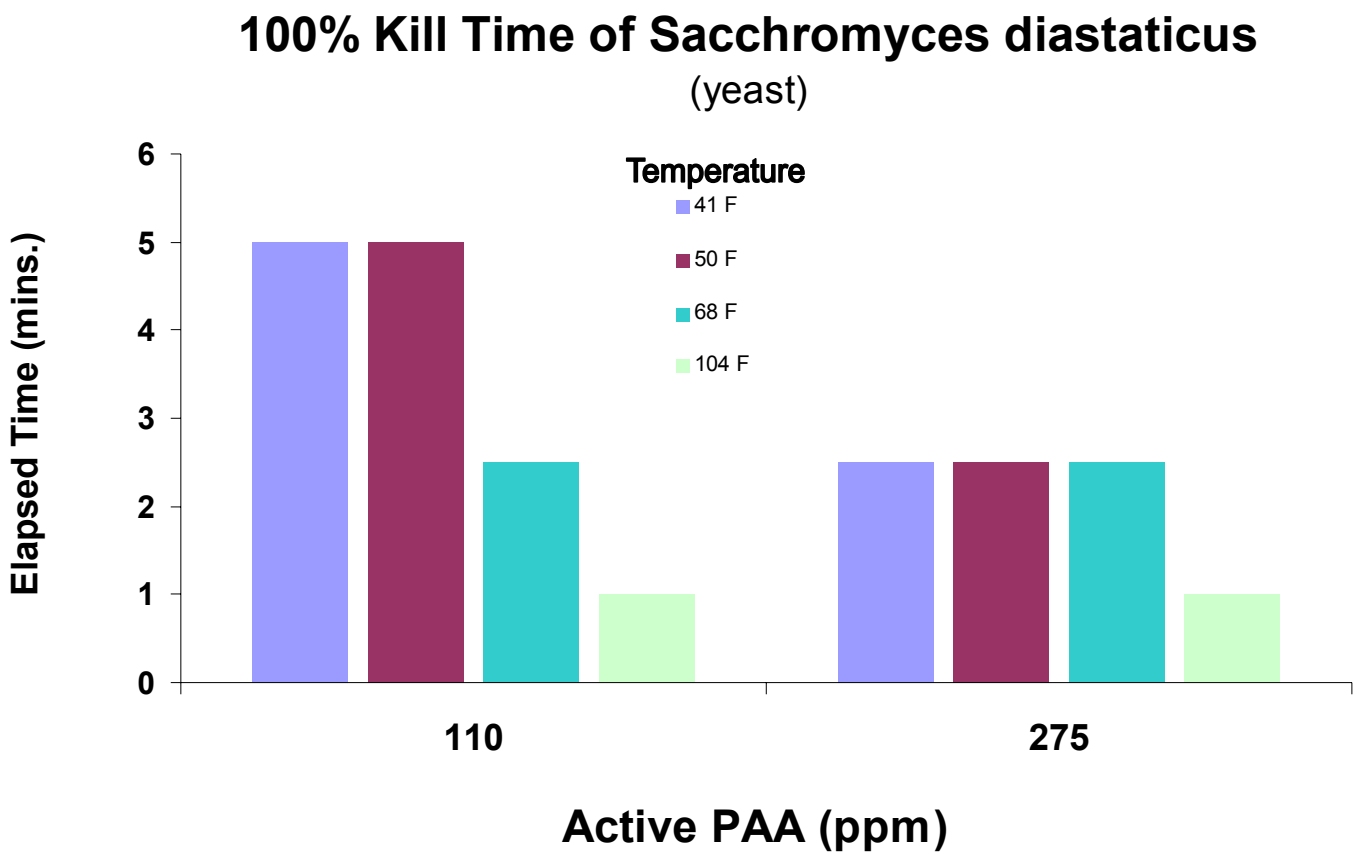
Salmonella dublin-GN bacteria



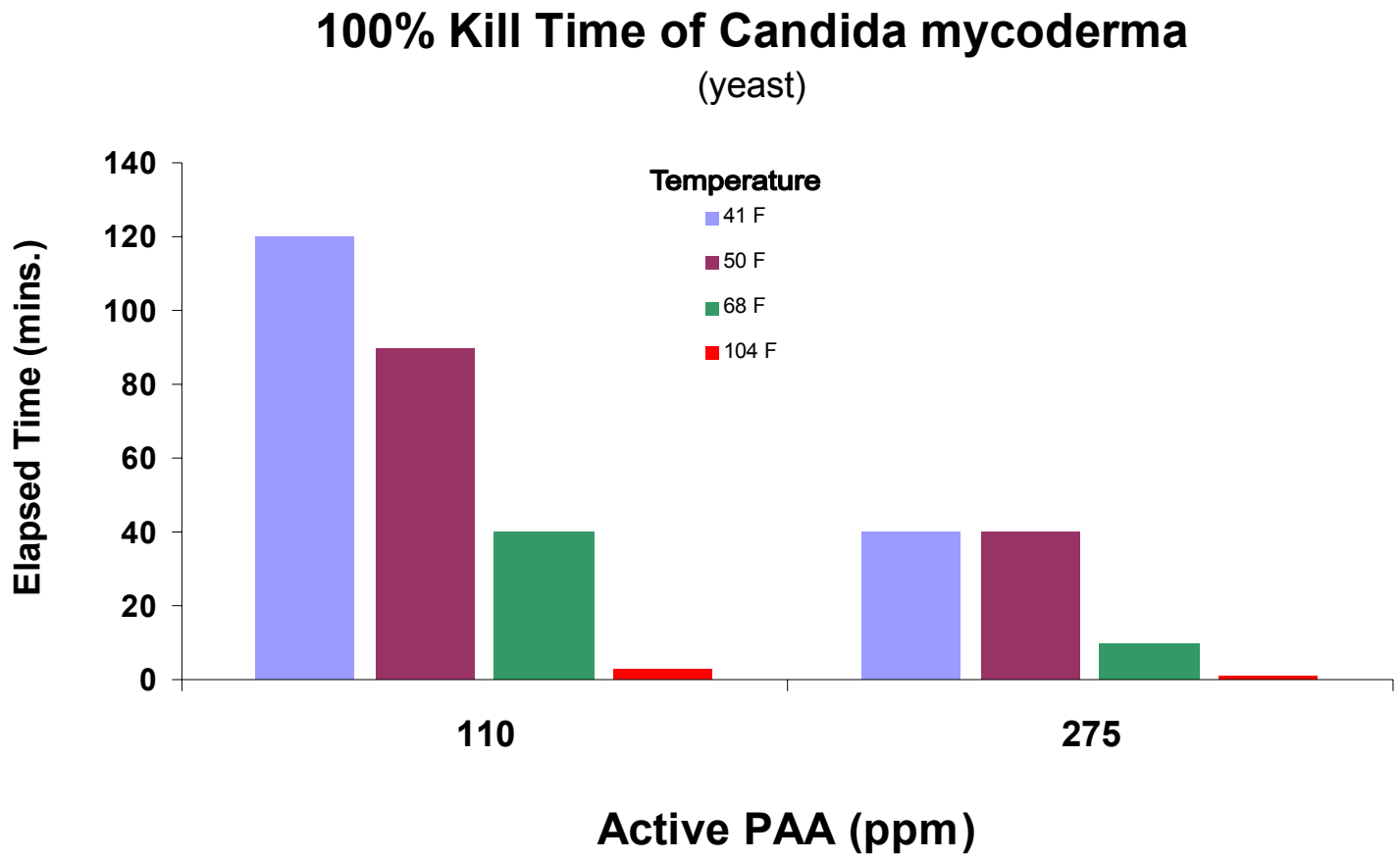
Sacchromyces cerevisiae-yeast



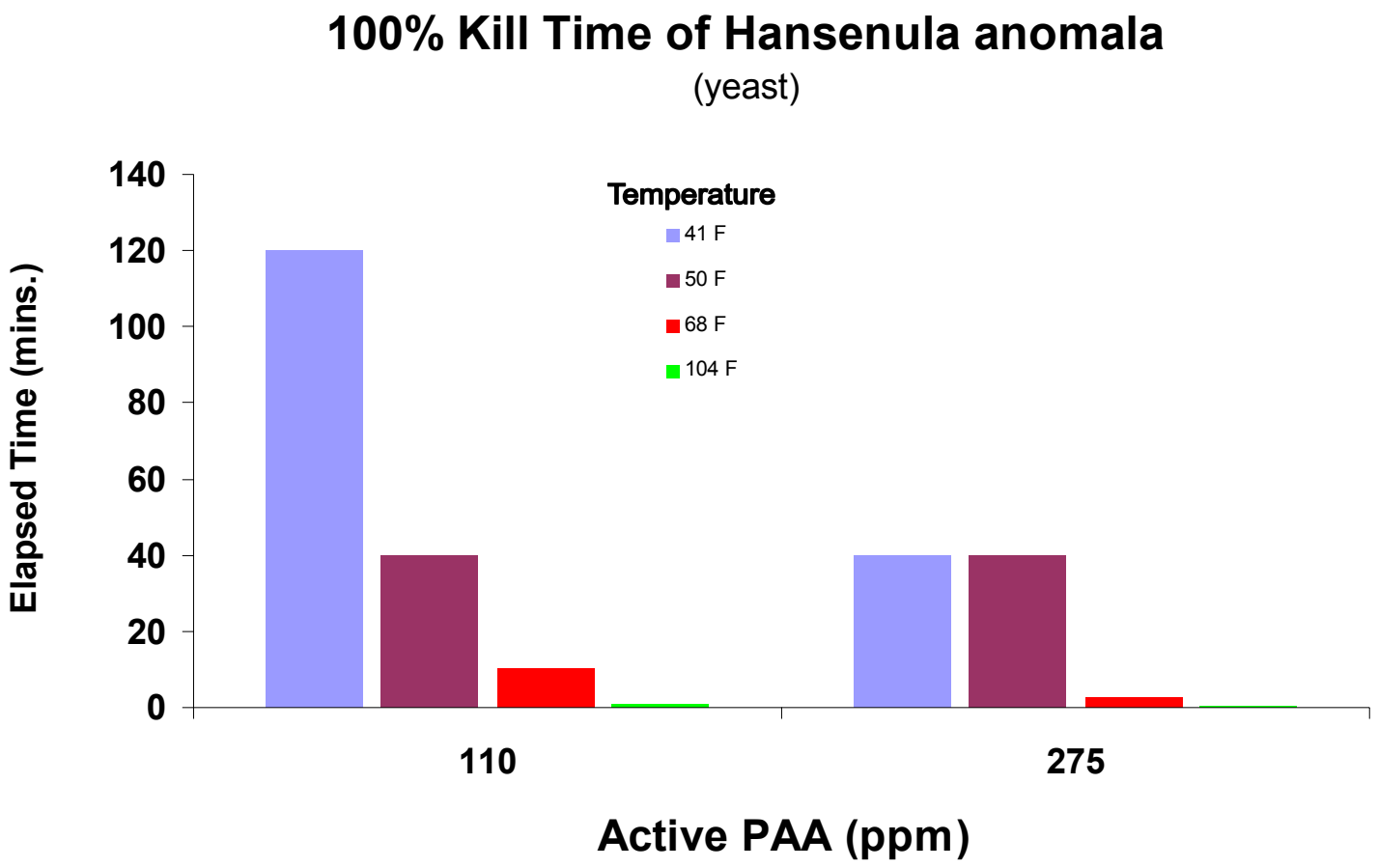
Sacchromyces diastaticus-yeast



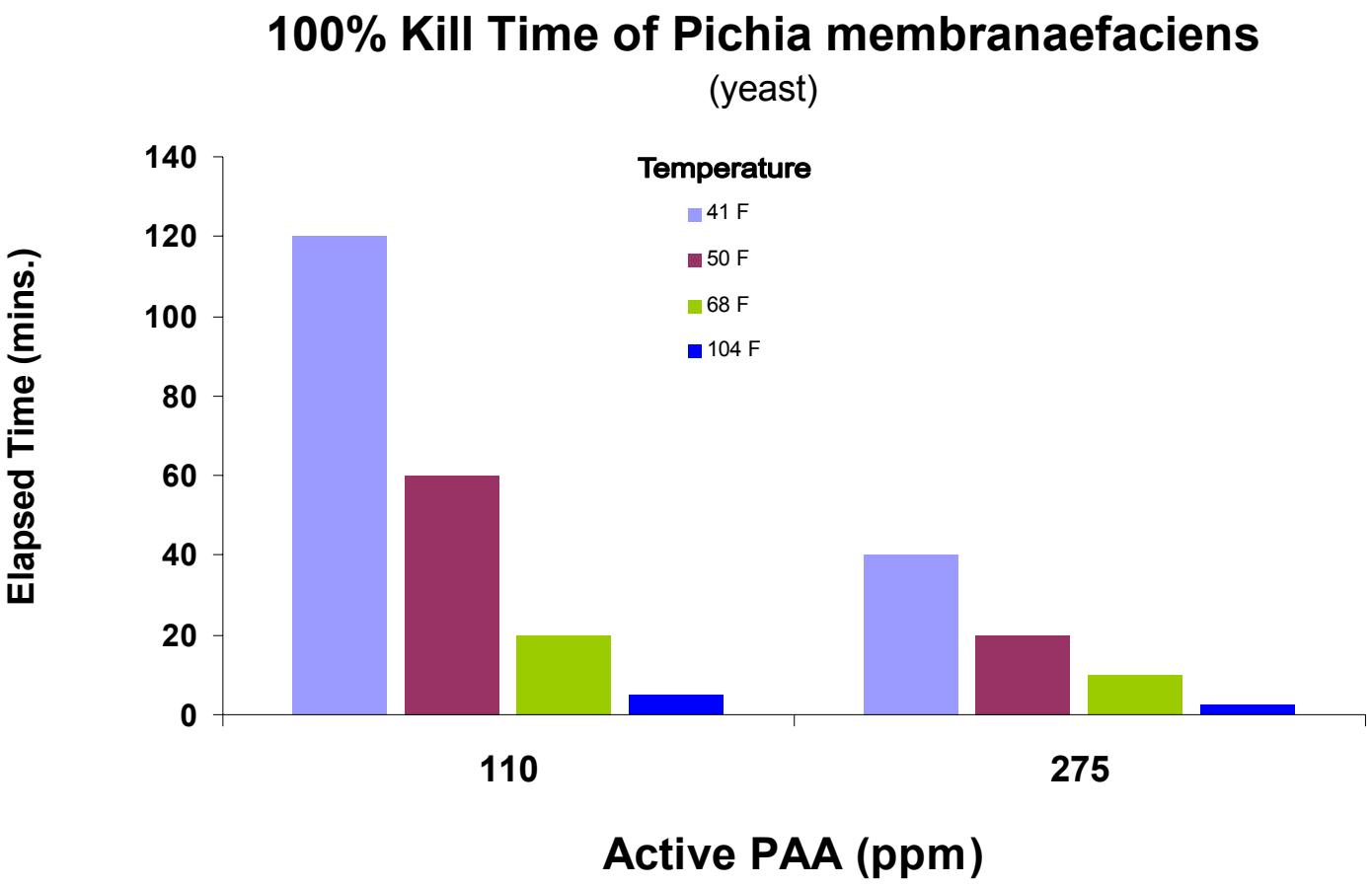
Candida mycoderma-yeast



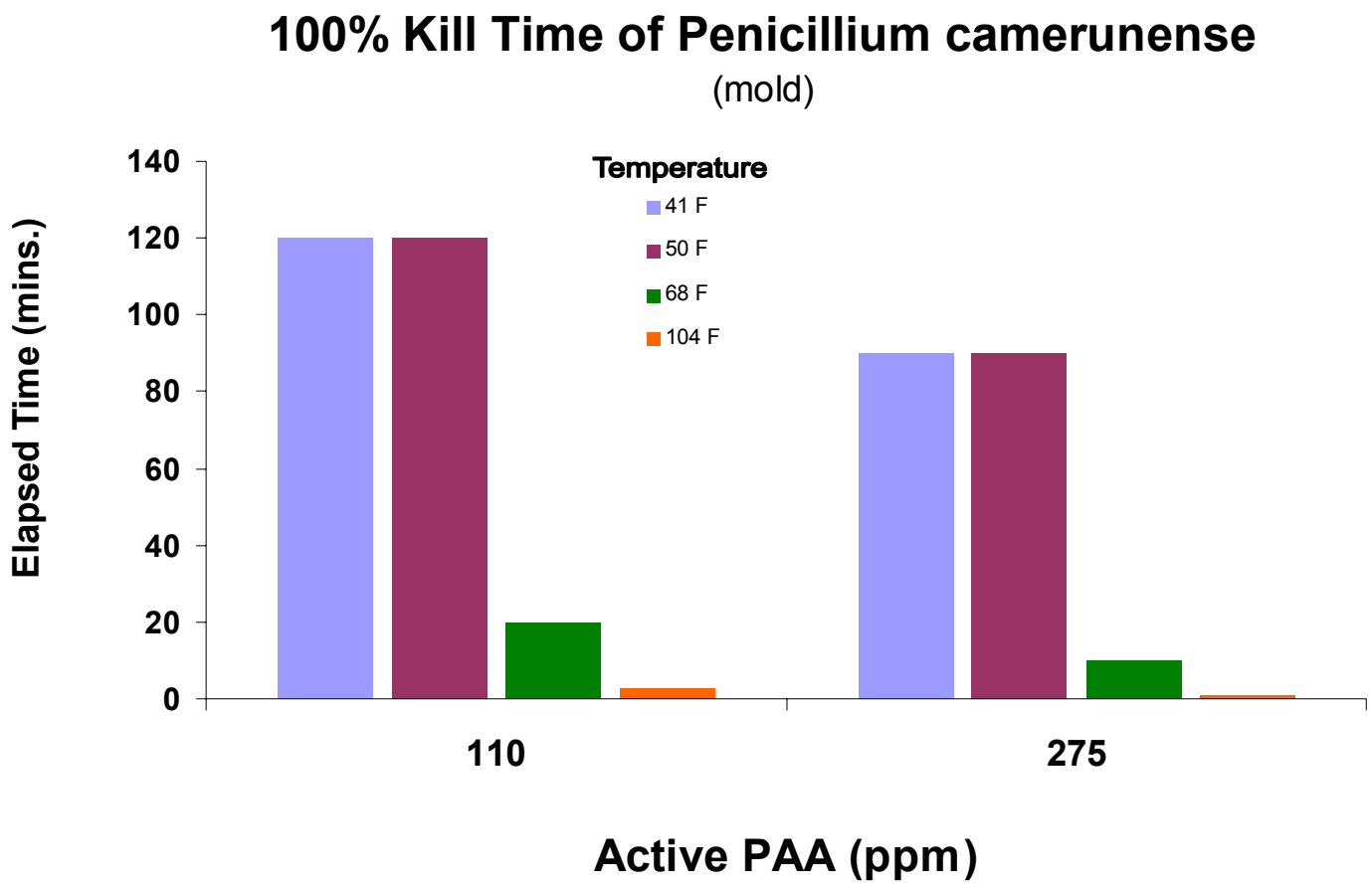
Hansenula anomala-yeast



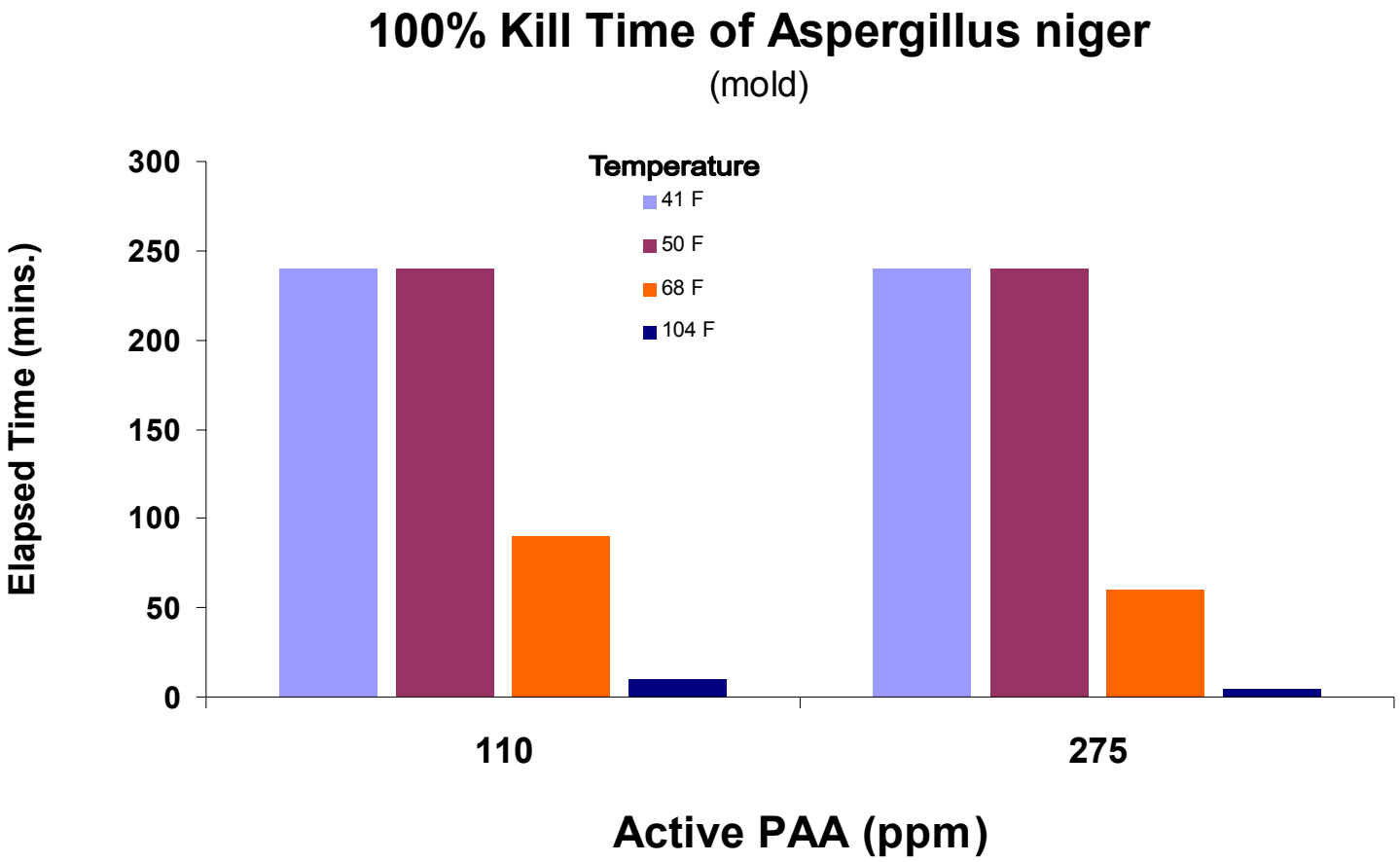
Pichia membranaefaciens-yeast



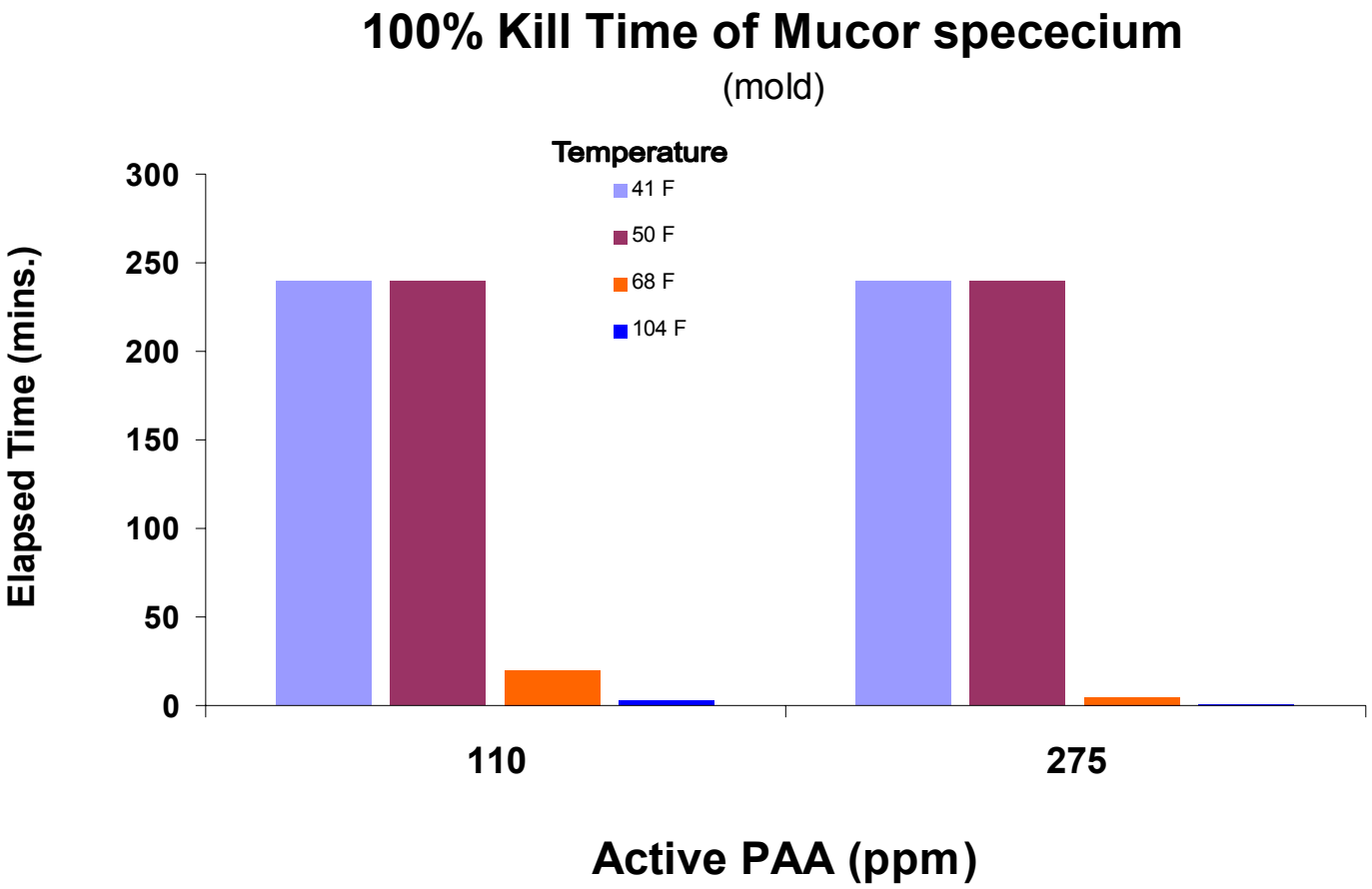
Penicillium camerunense-mold



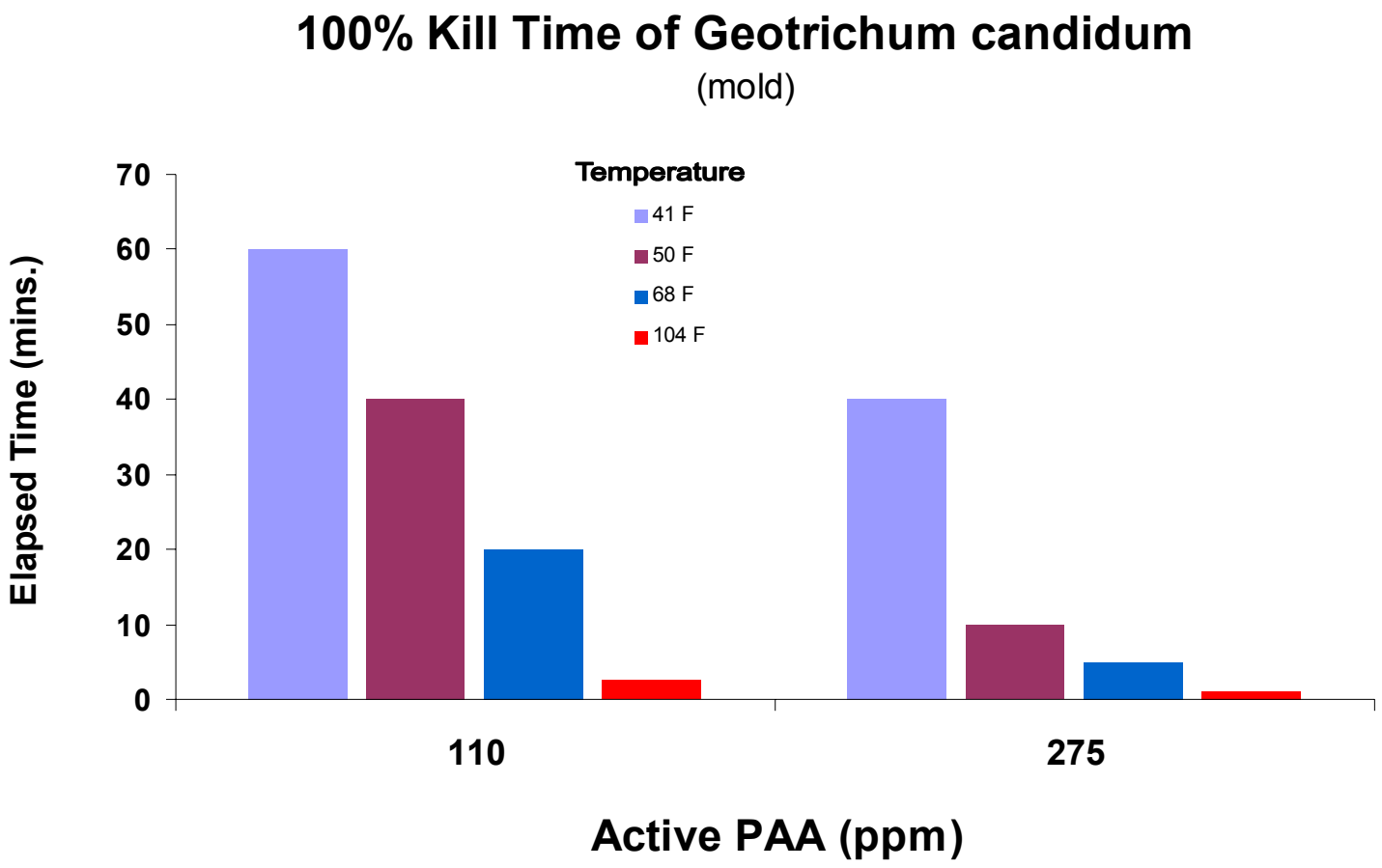
Aspergillus niger-mold



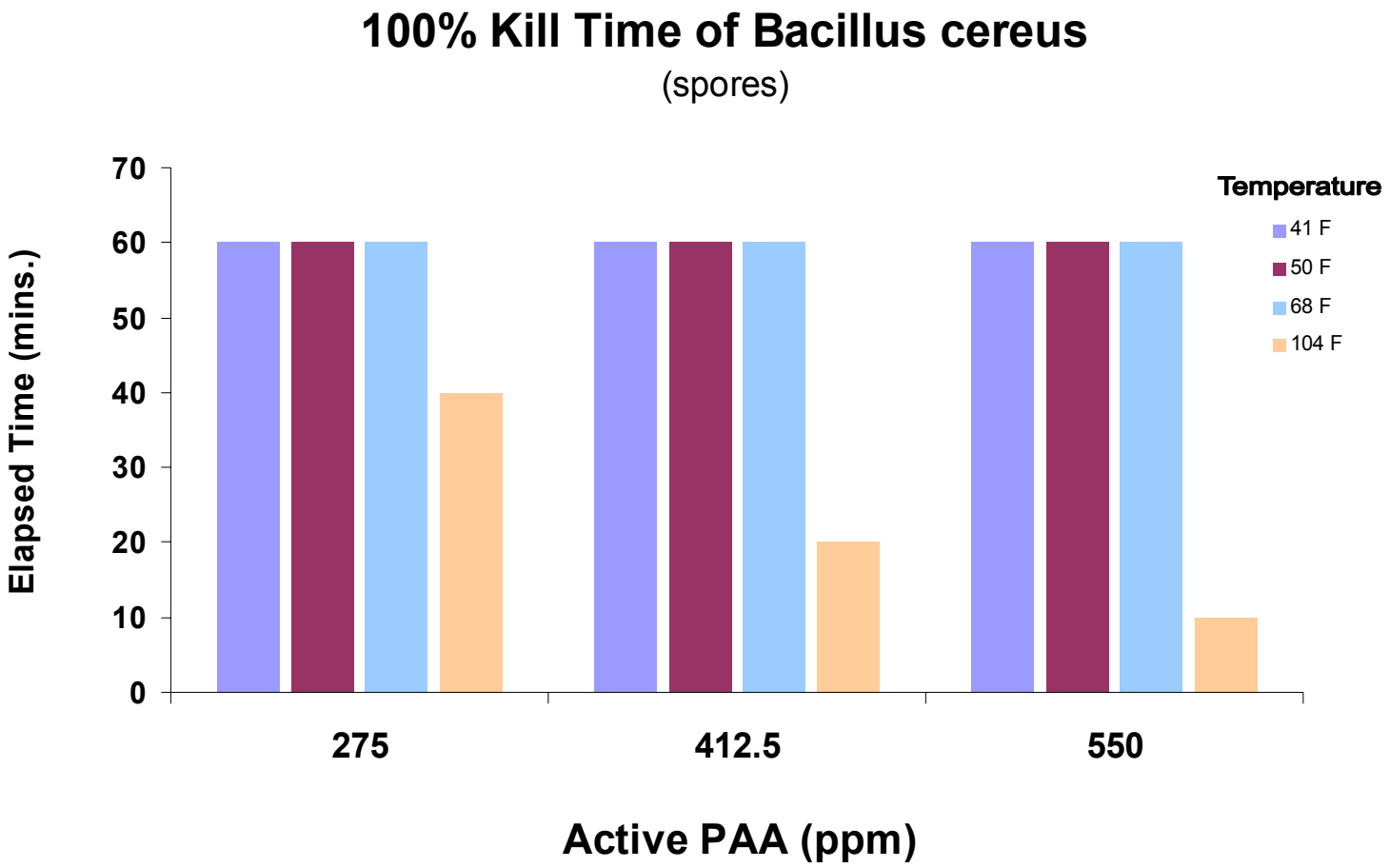
Mucor spececium-mold



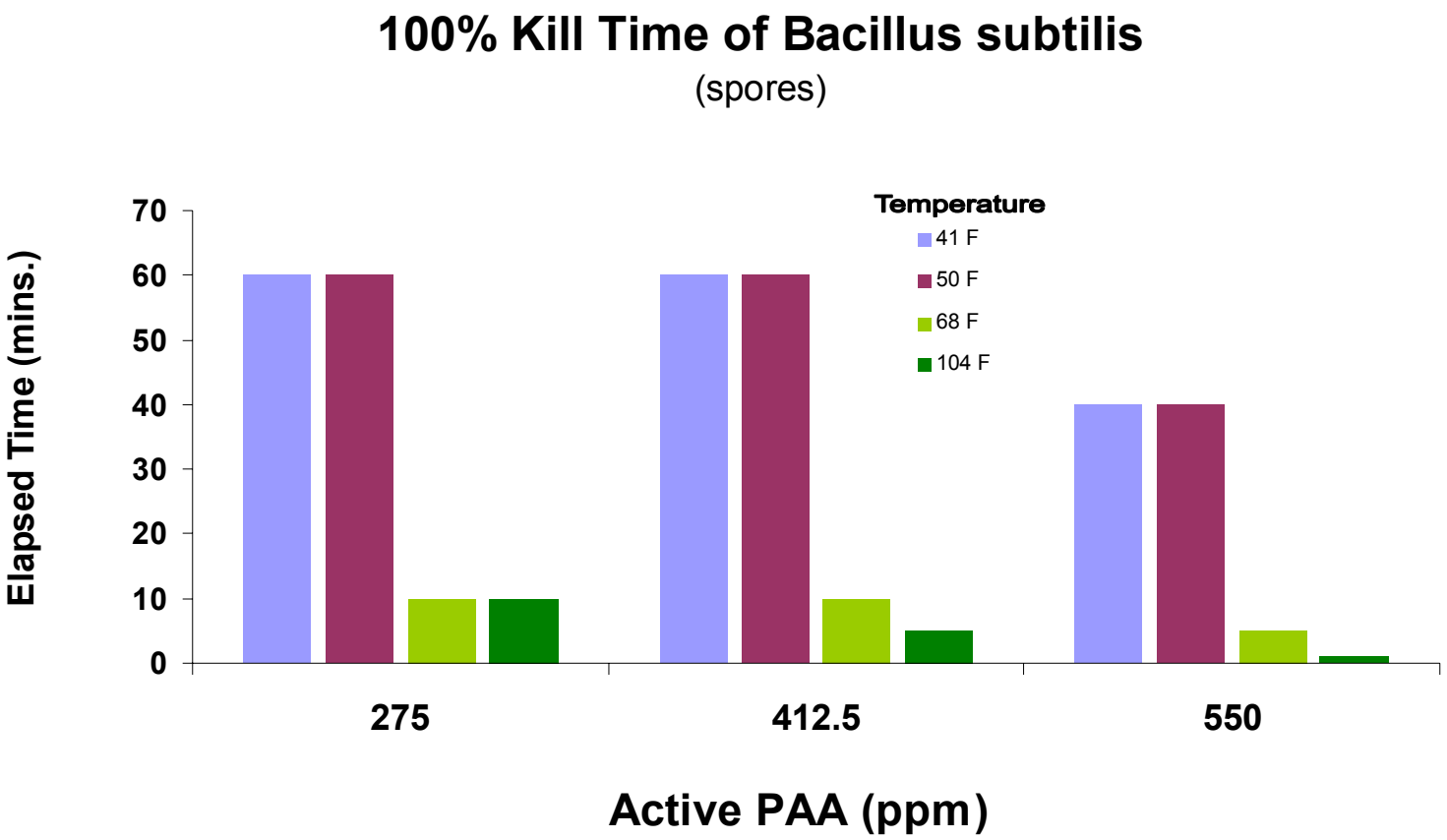
Geotrichum candidum-mold



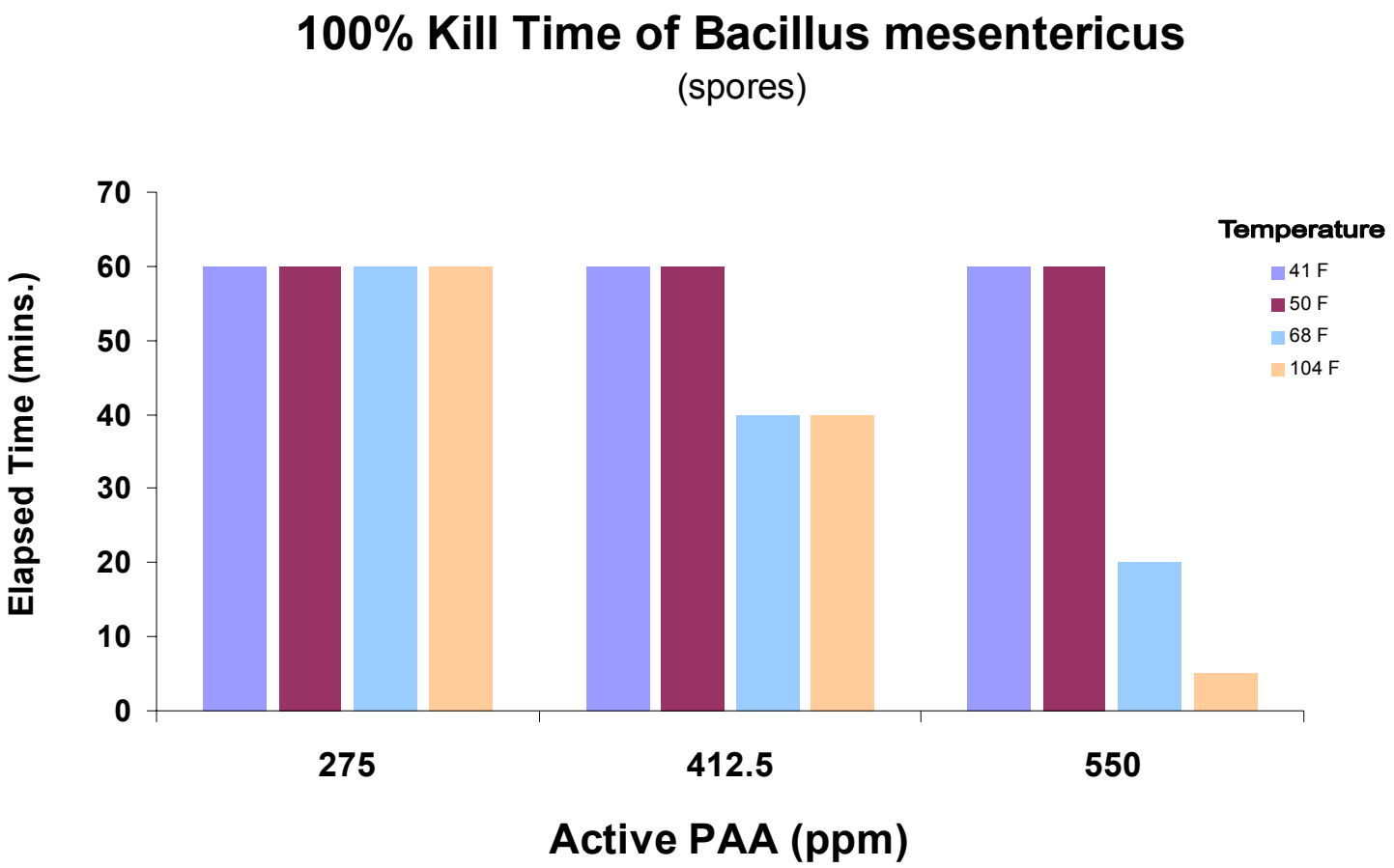
Bacillus cereus-spores



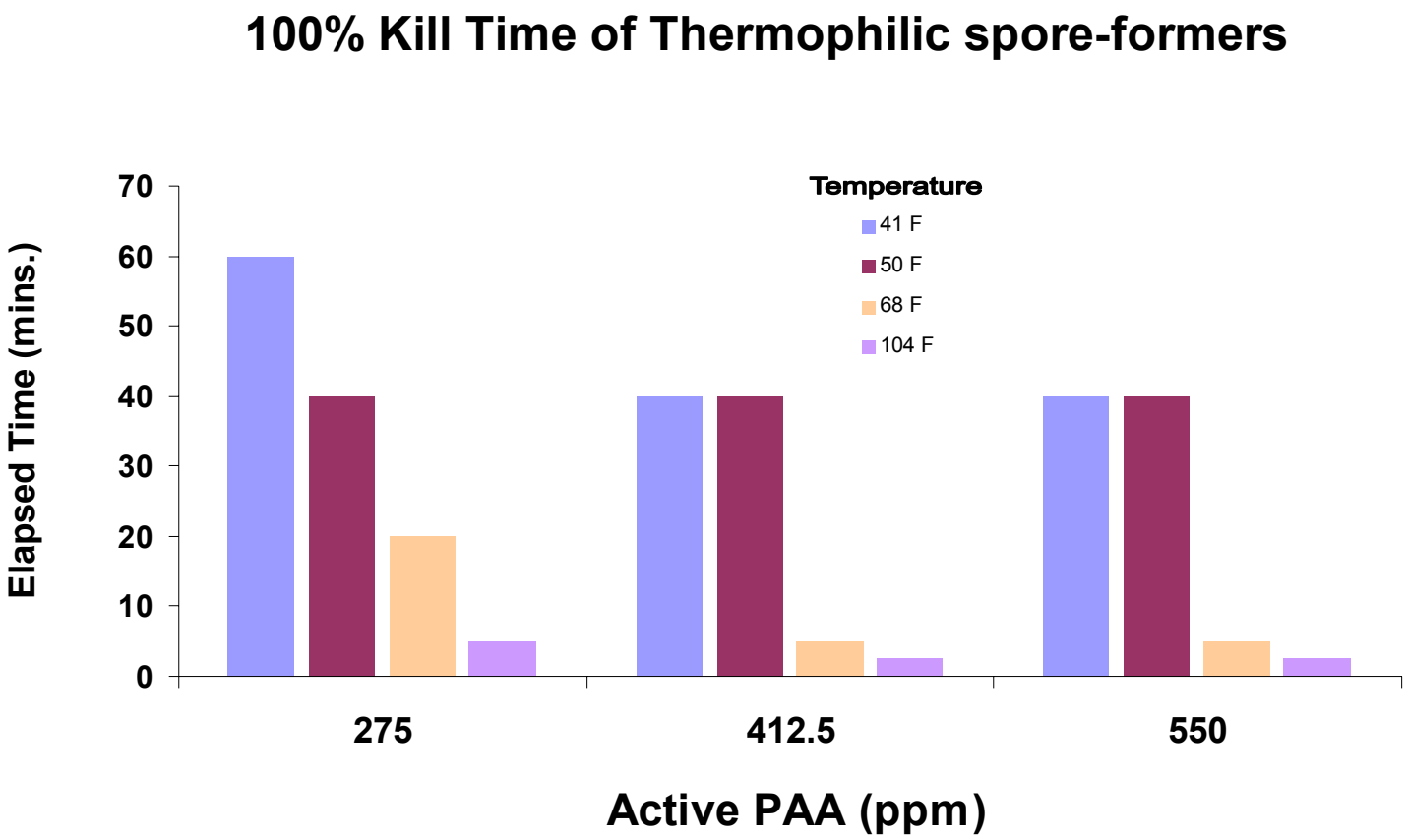
Bacillus subtilis-spores



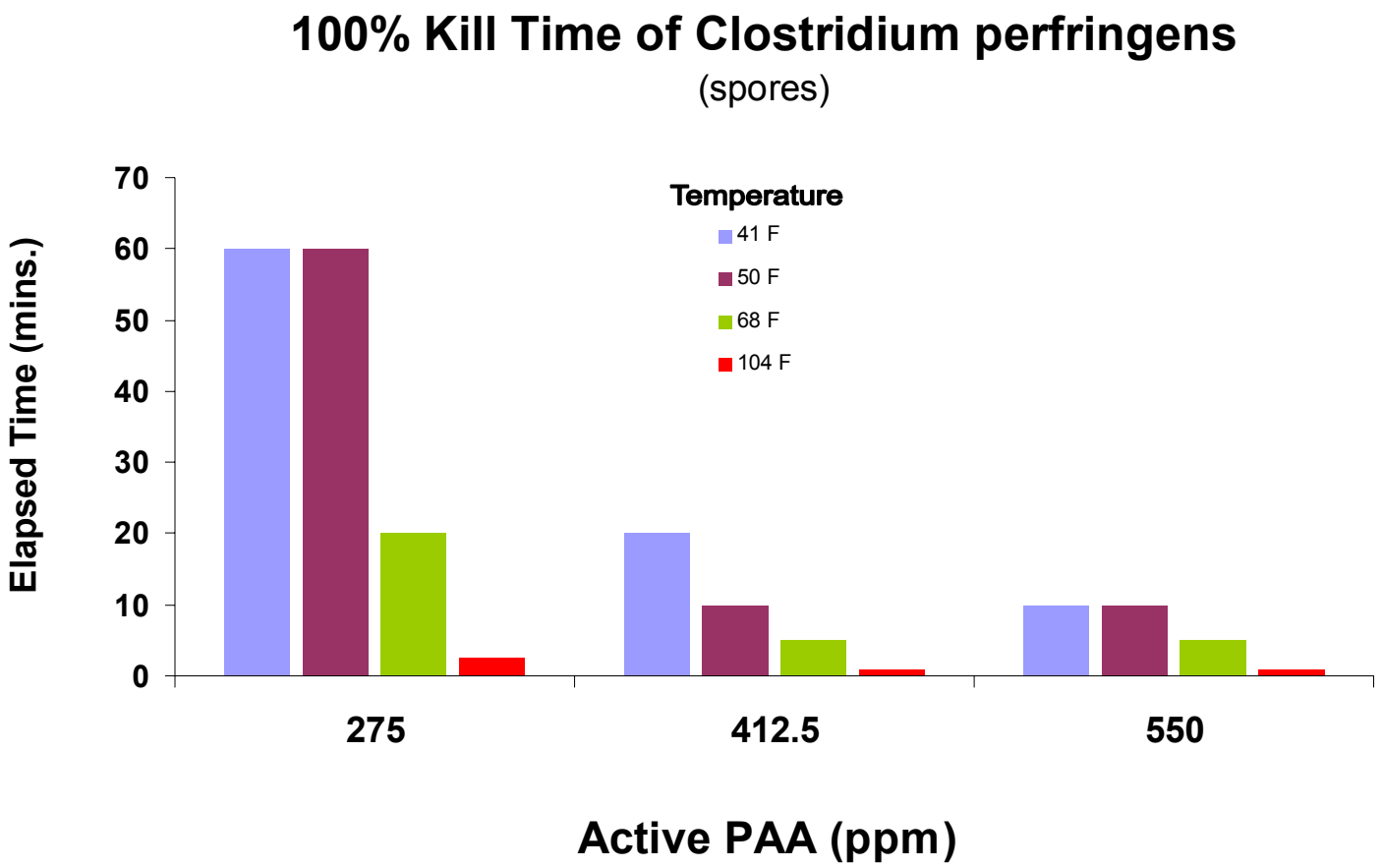
Bacillus mesentericus-spores



Thermophilic species-spores



Clostridium perfringens-spores



Clostridium specialis-spores