

EFFICACY OF PEROXYACETIC ACID

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

Intro

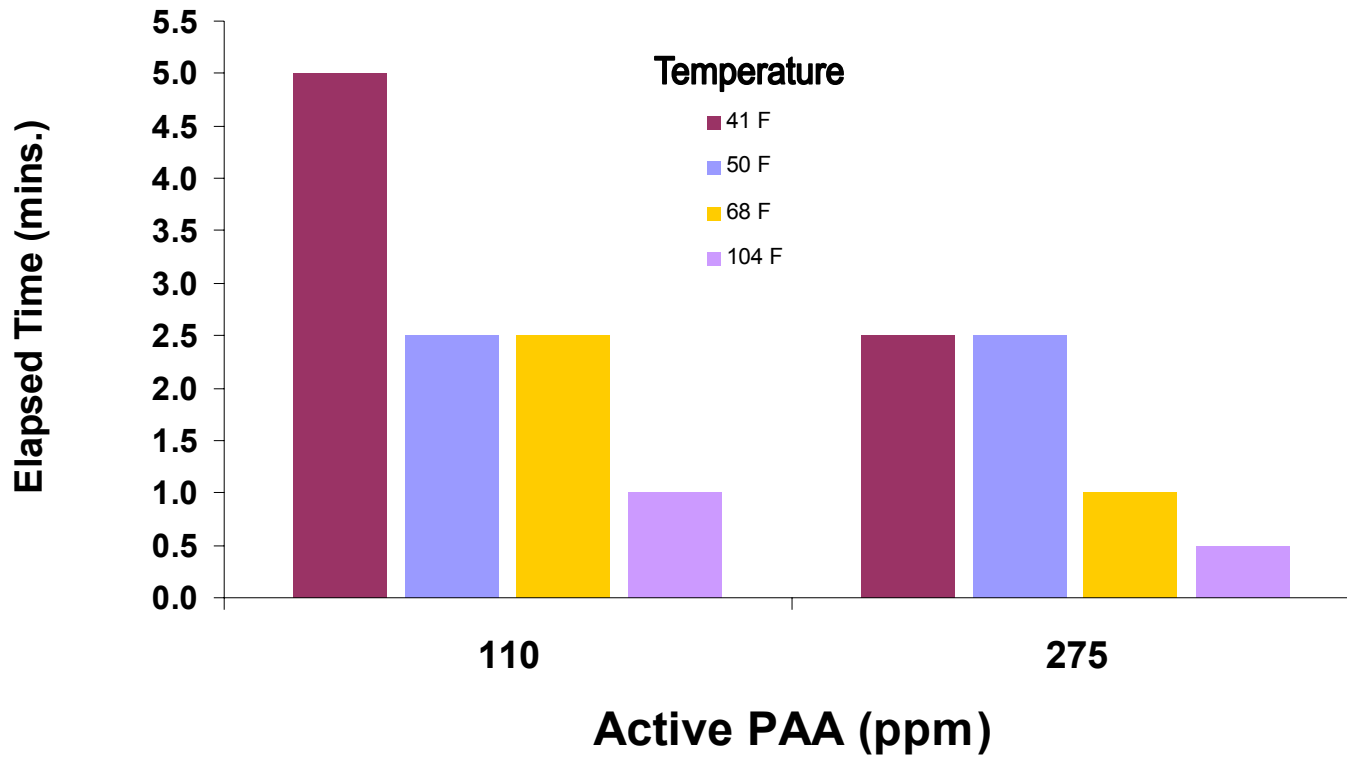
These charts include 6 bacteria species, 5 yeasts, 4 molds, and 6 types of spores. The 100% Kill Times represent the time to completely eradicate (100%) of each indicated species. This chart is unusual in that it does not report the time needed to reduce the given organism to particular log reductions,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

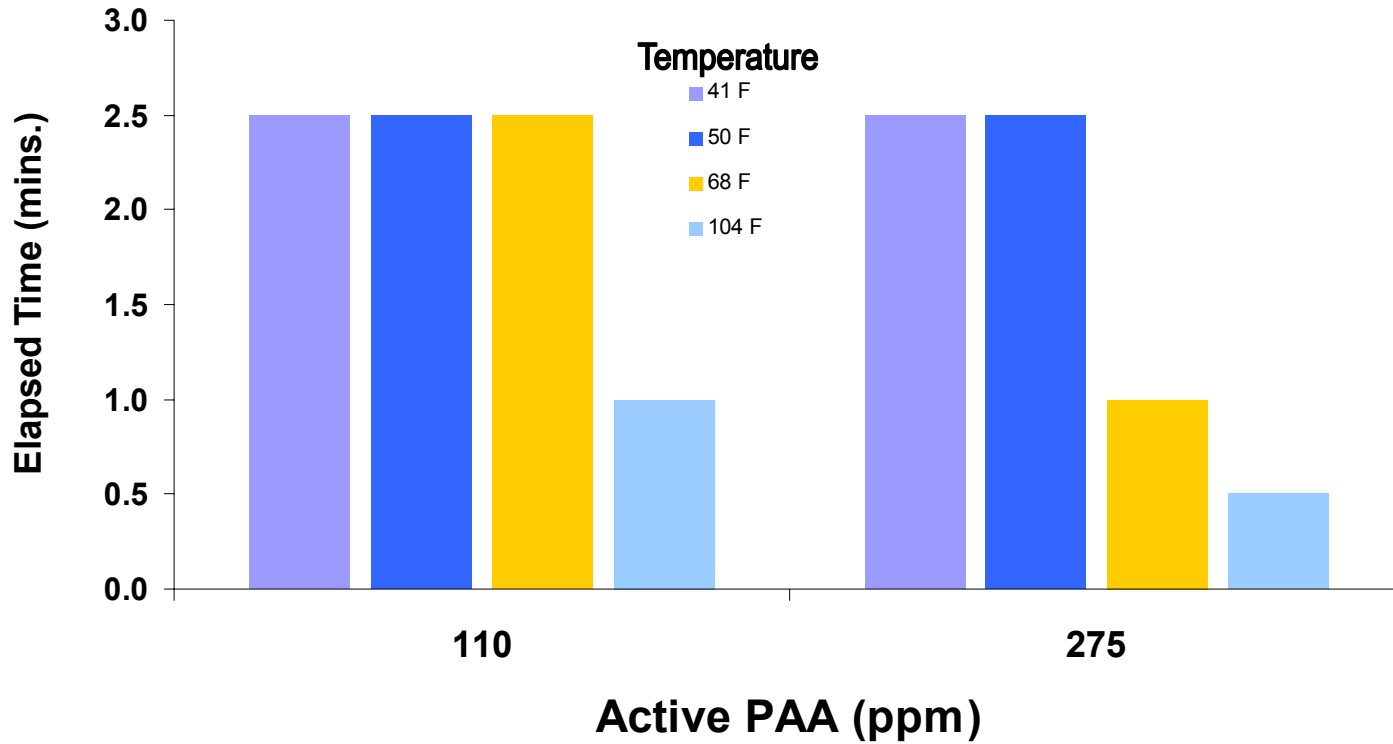
Staphylococcus aureus-GP bacteria

100% Kill Time of Staphylococcus aureus (gram-positive bacteria)



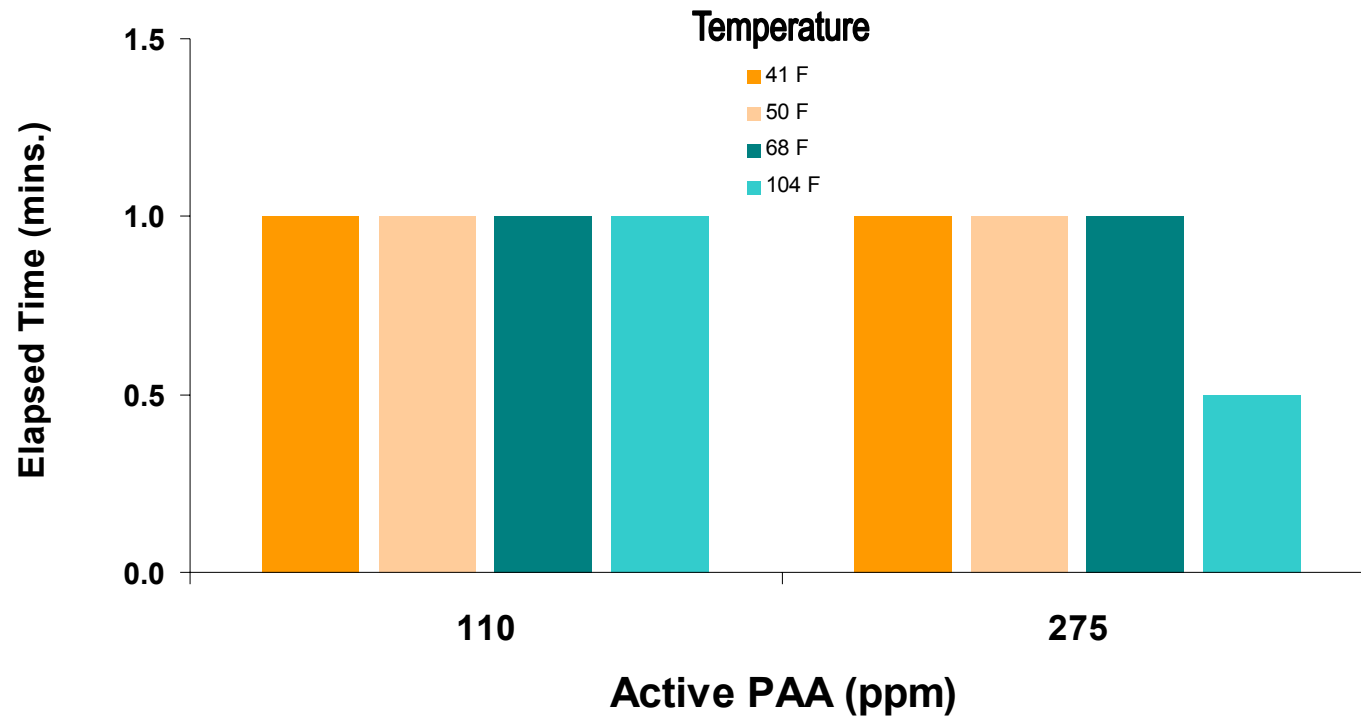
Streptococcus faecalis-GP bacteria

100% Kill Time of Streptococcus faecalis
(gram-positive bacteria)



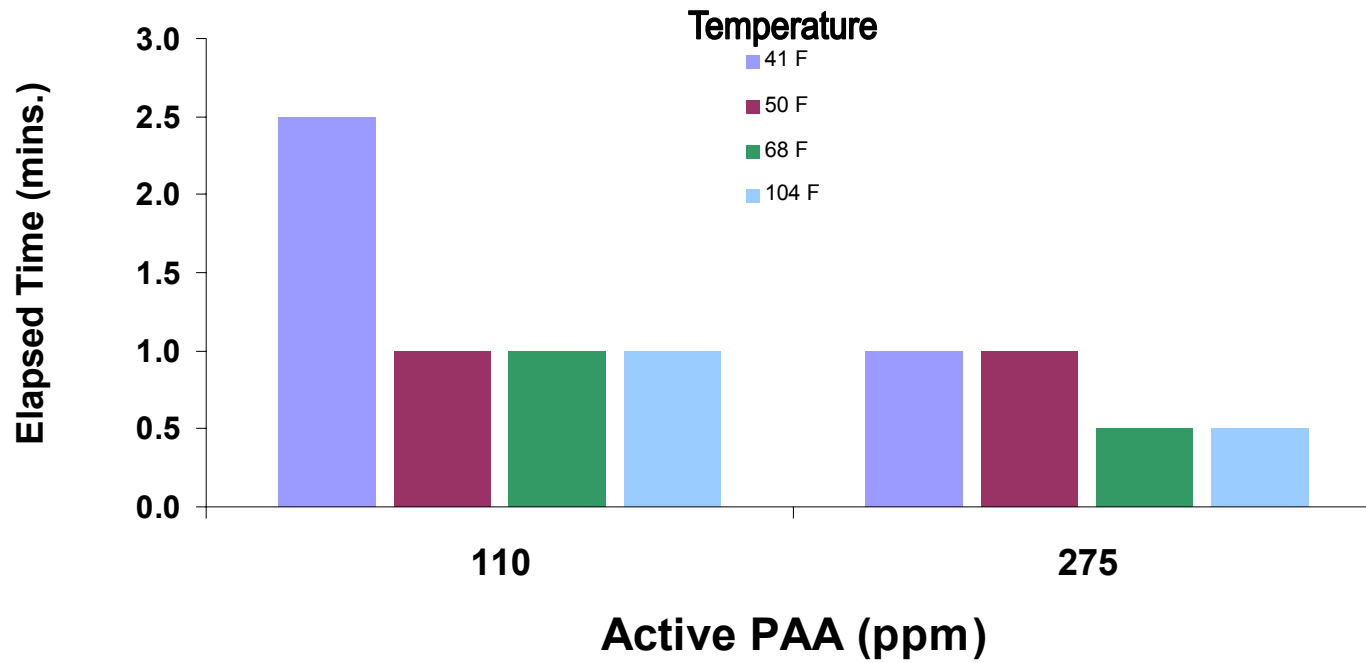
Aerobacter aerogenes-GN bacteria

100% Kill Time of Aerobacter aerogenes (gram-negative bacteria)



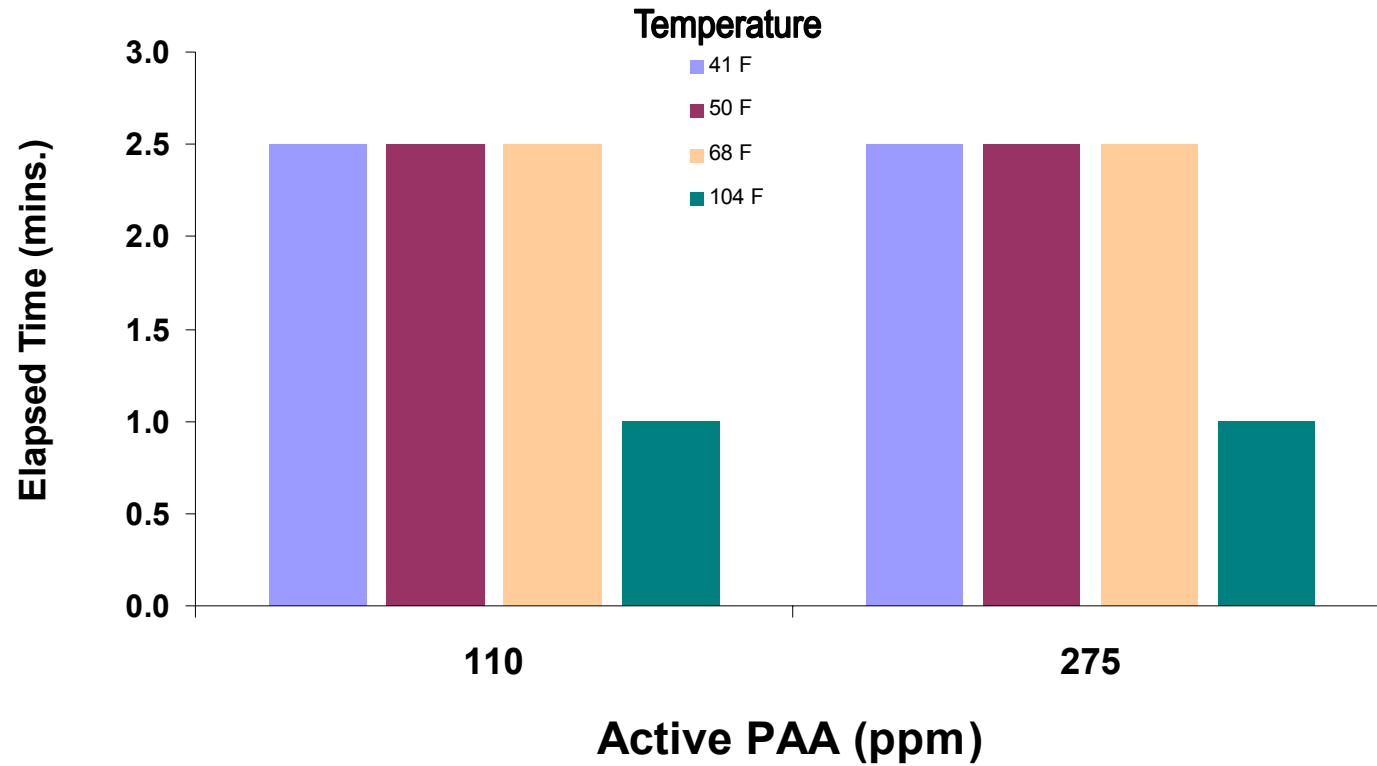
Pseudomonas aeruginosa-GN bacteria

100% Kill Time of Pseudomonas aeruginosa (gram-negative bacteria)



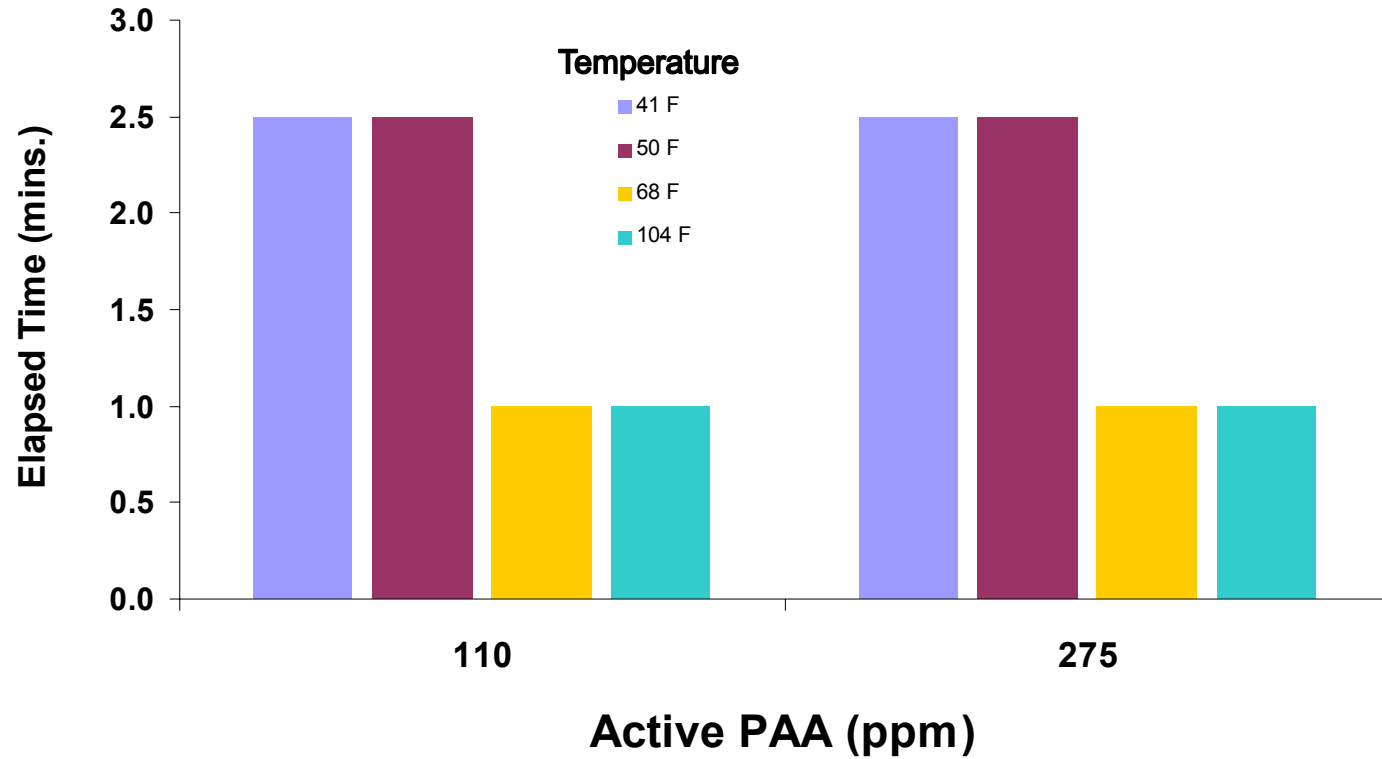
Salmonella typhimurium-GN bacteria

100% Kill Time of Salmonella typhimurium (gram-negative bacteria)



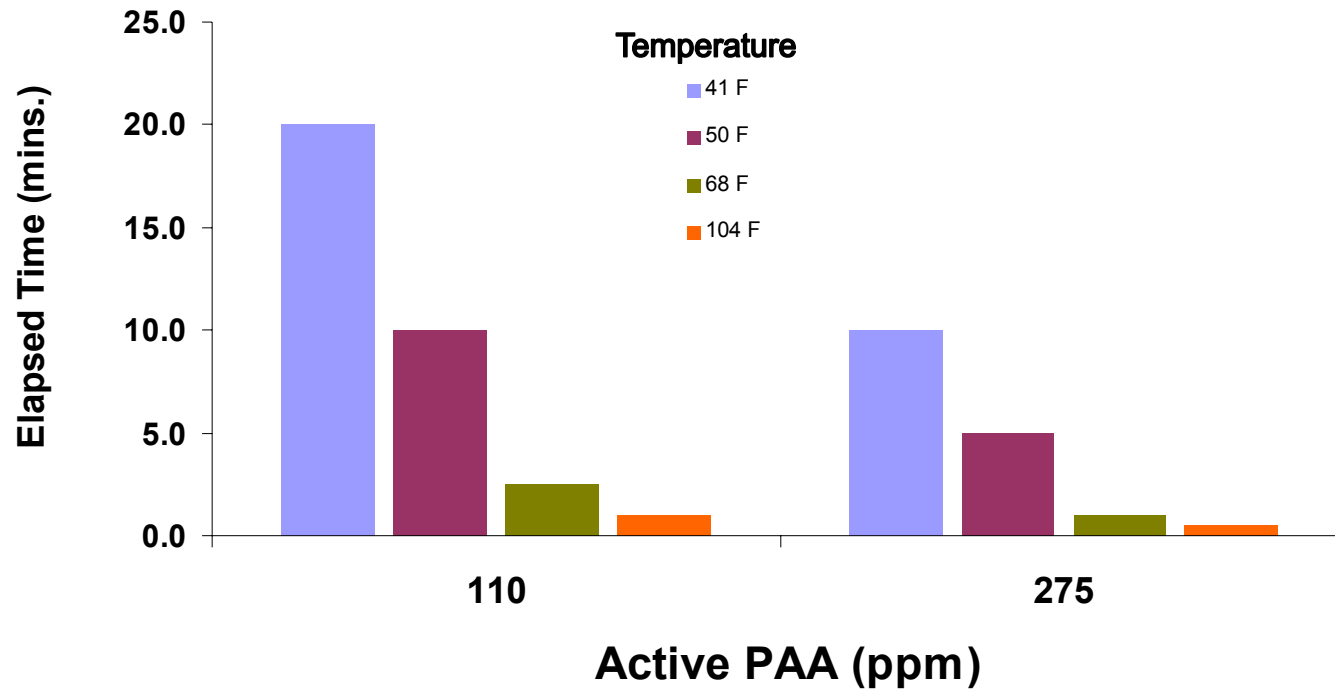
Salmonella dublin-GN bacteria

100% Kill Time of Salmonella dublin (gram-negative bacteria)



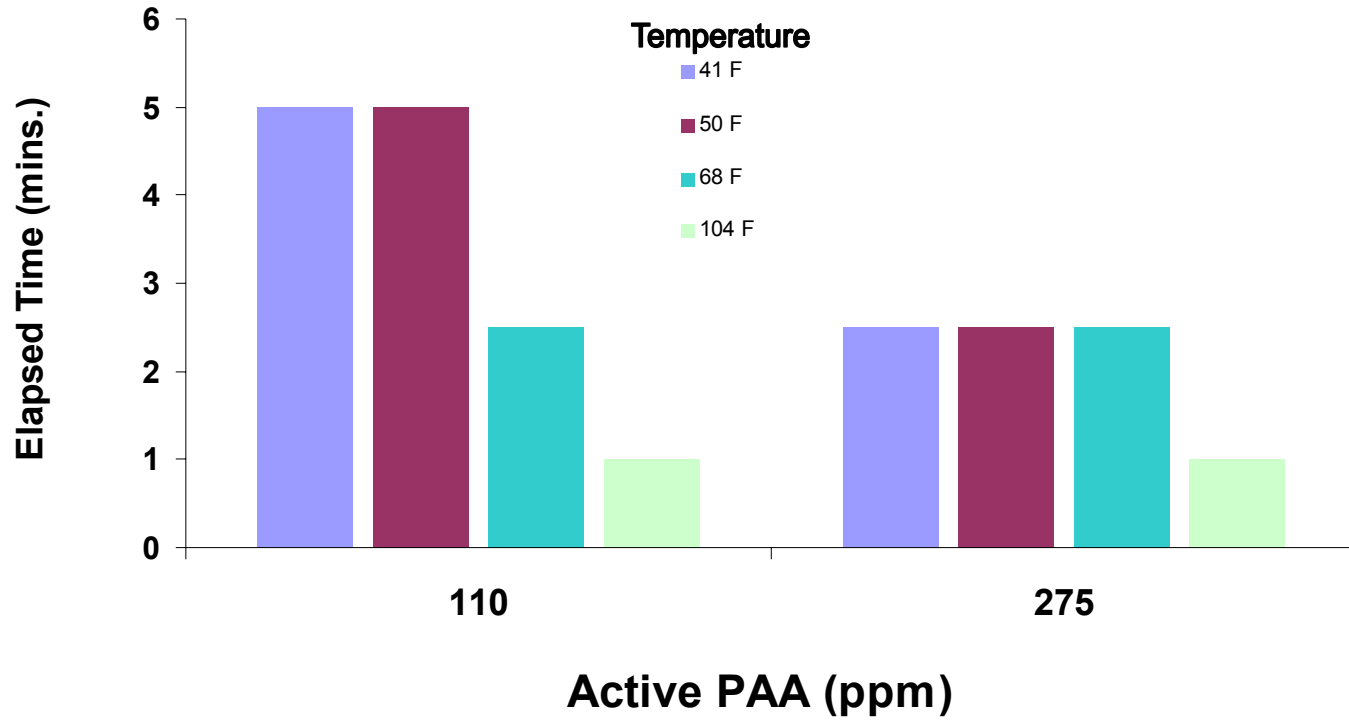
Sacchromyces cerevisiae-yeast

100% Kill Time of Sacchromyces cerevisiae (yeast)



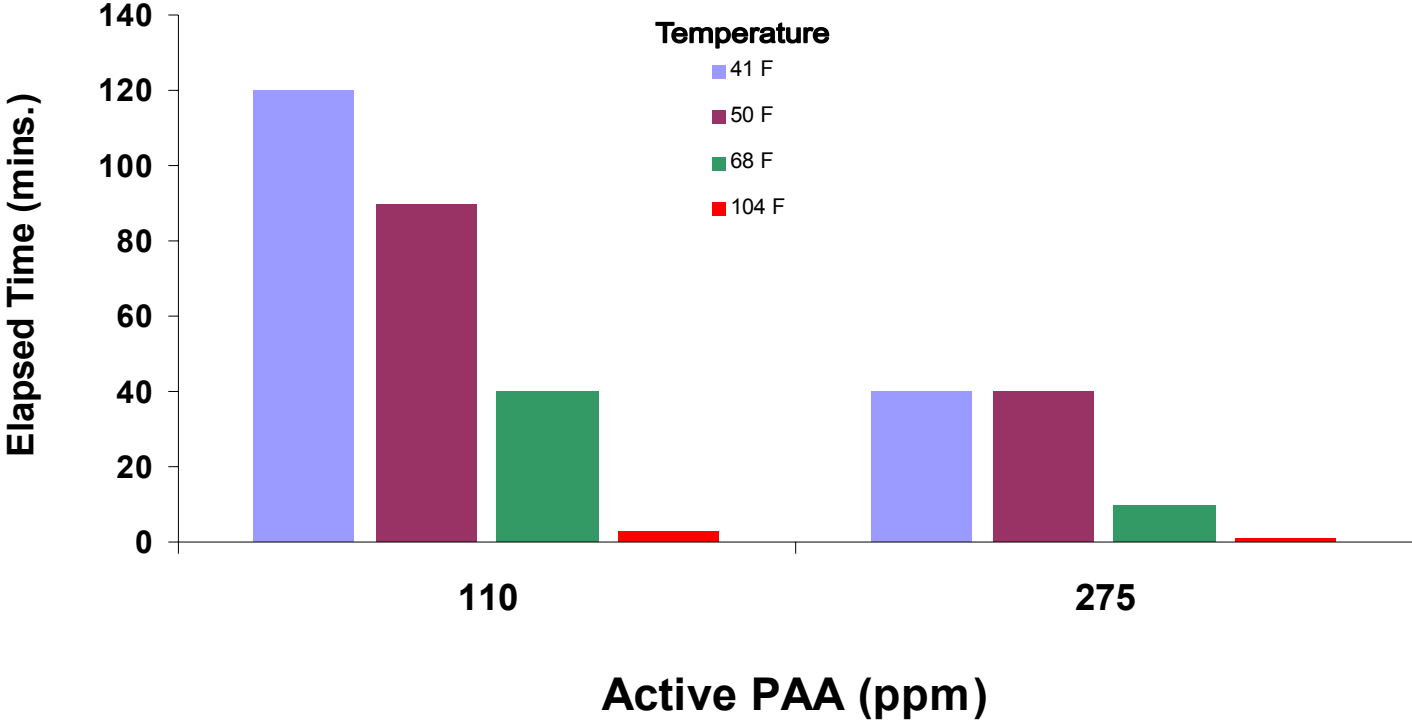
Sacchromyces diastaticus-yeast

100% Kill Time of Sacchromyces diastaticus (yeast)



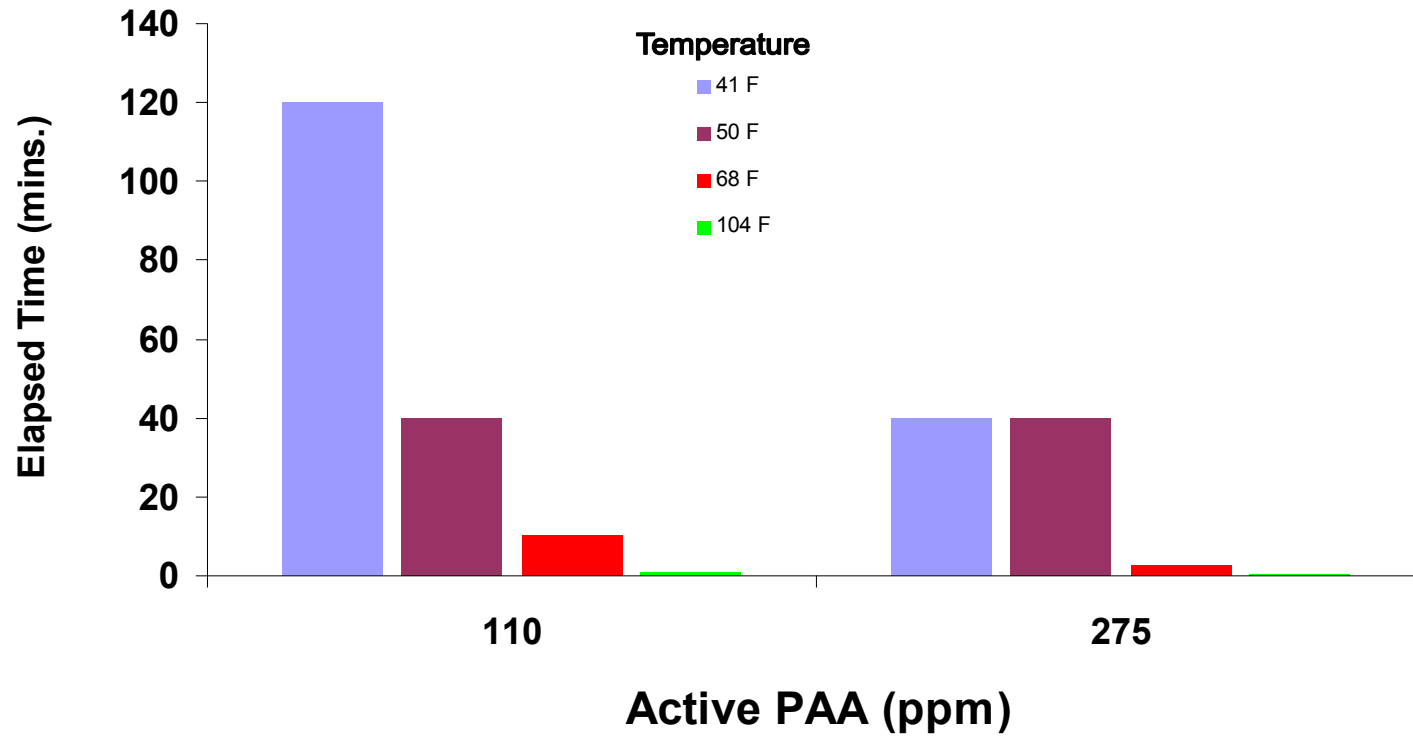
Candida mycoderma-yeast

100% Kill Time of Candida mycoderma
(yeast)



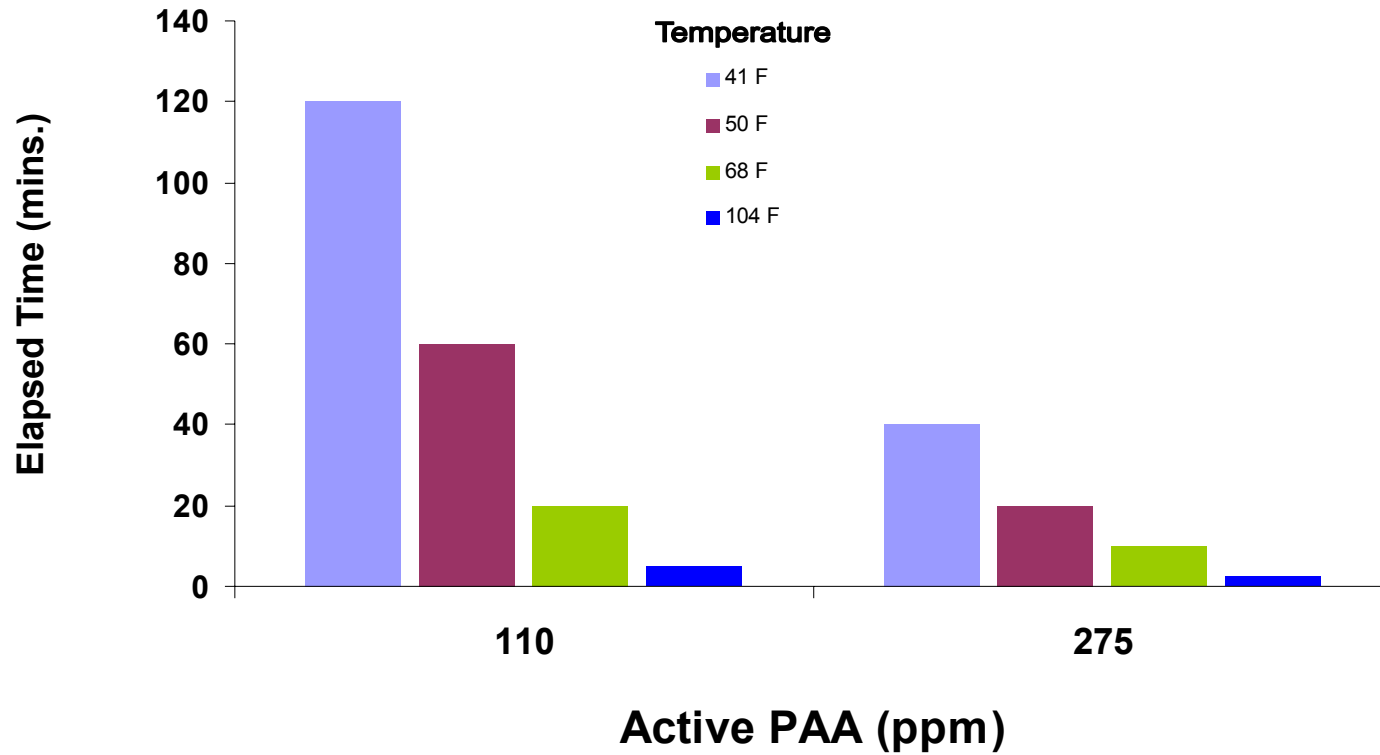
Hansenula anomala-yeast

100% Kill Time of Hansenula anomala (yeast)



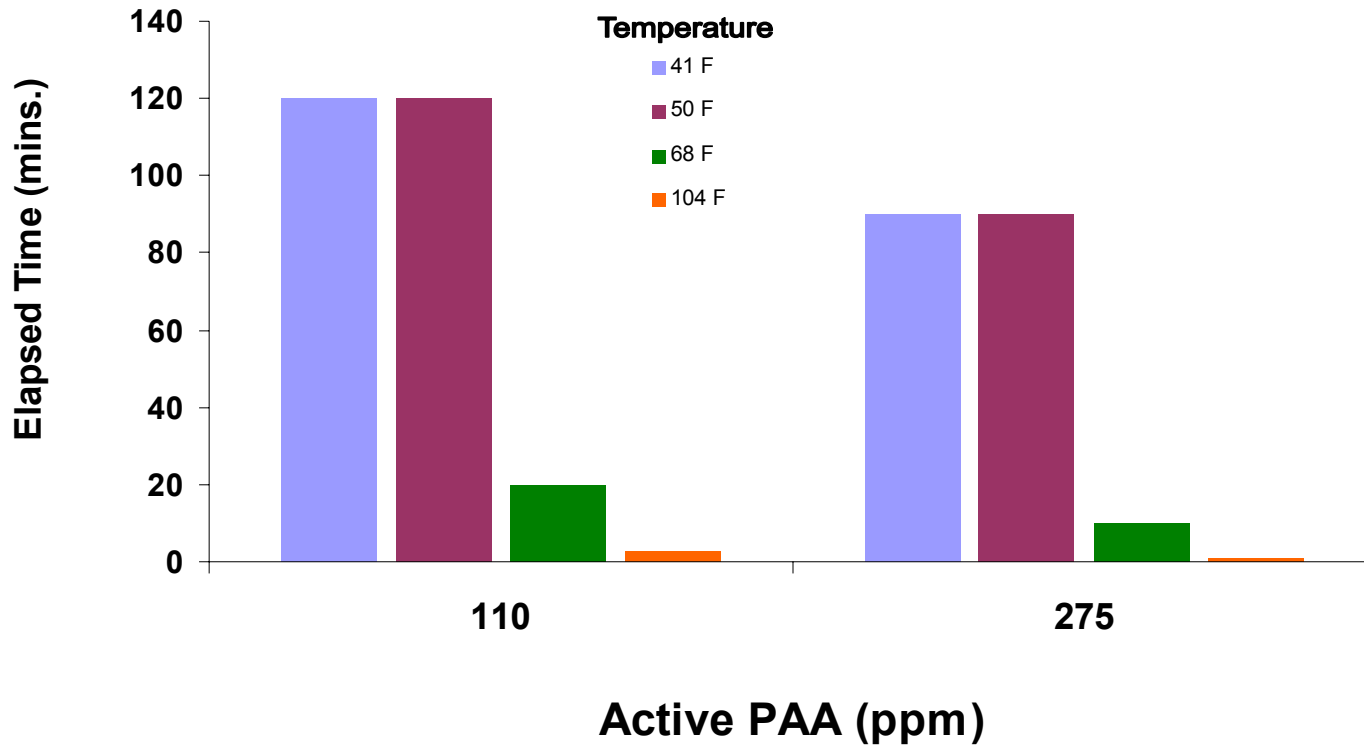
Pichia membranaefaciens-yeast

100% Kill Time of Pichia membranaefaciens
(yeast)



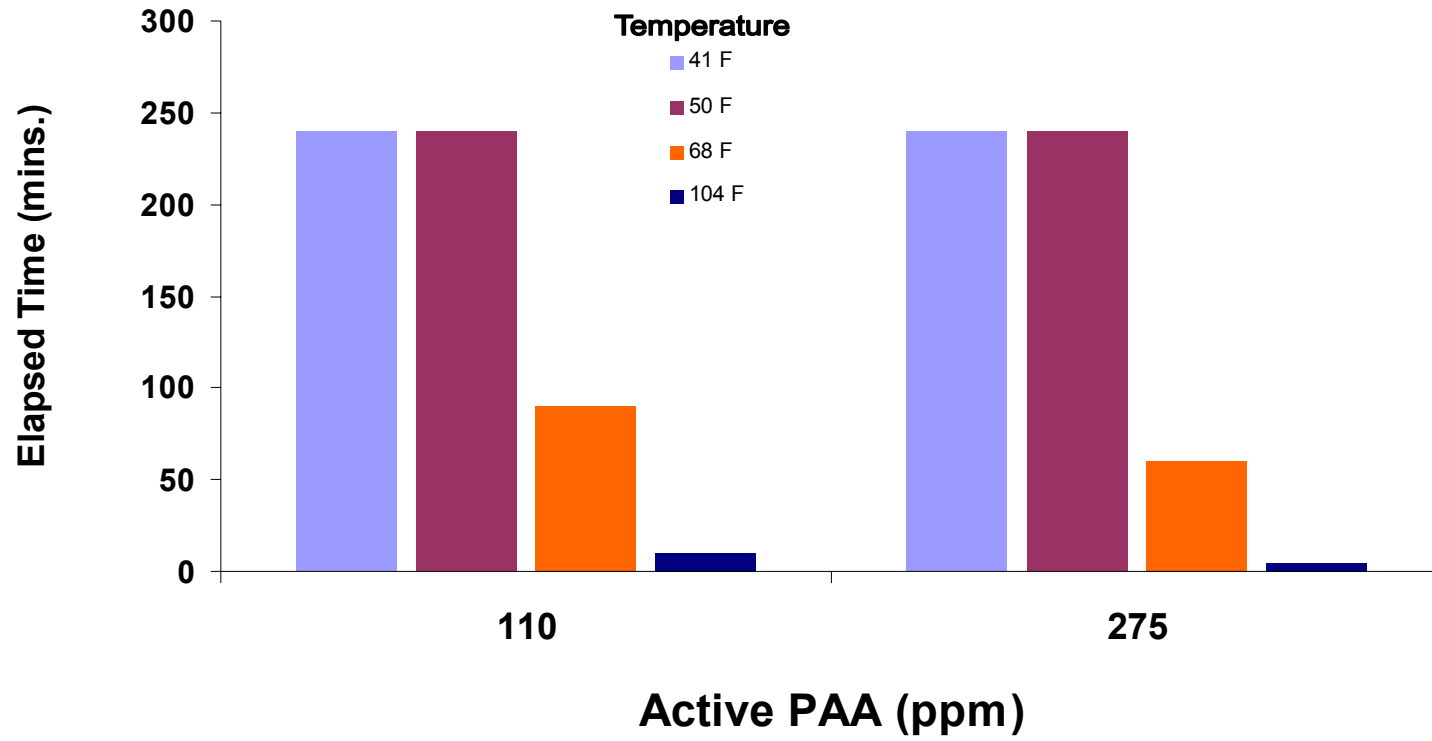
Penicillium camerunense-mold

100% Kill Time of *Penicillium camerunense* (mold)



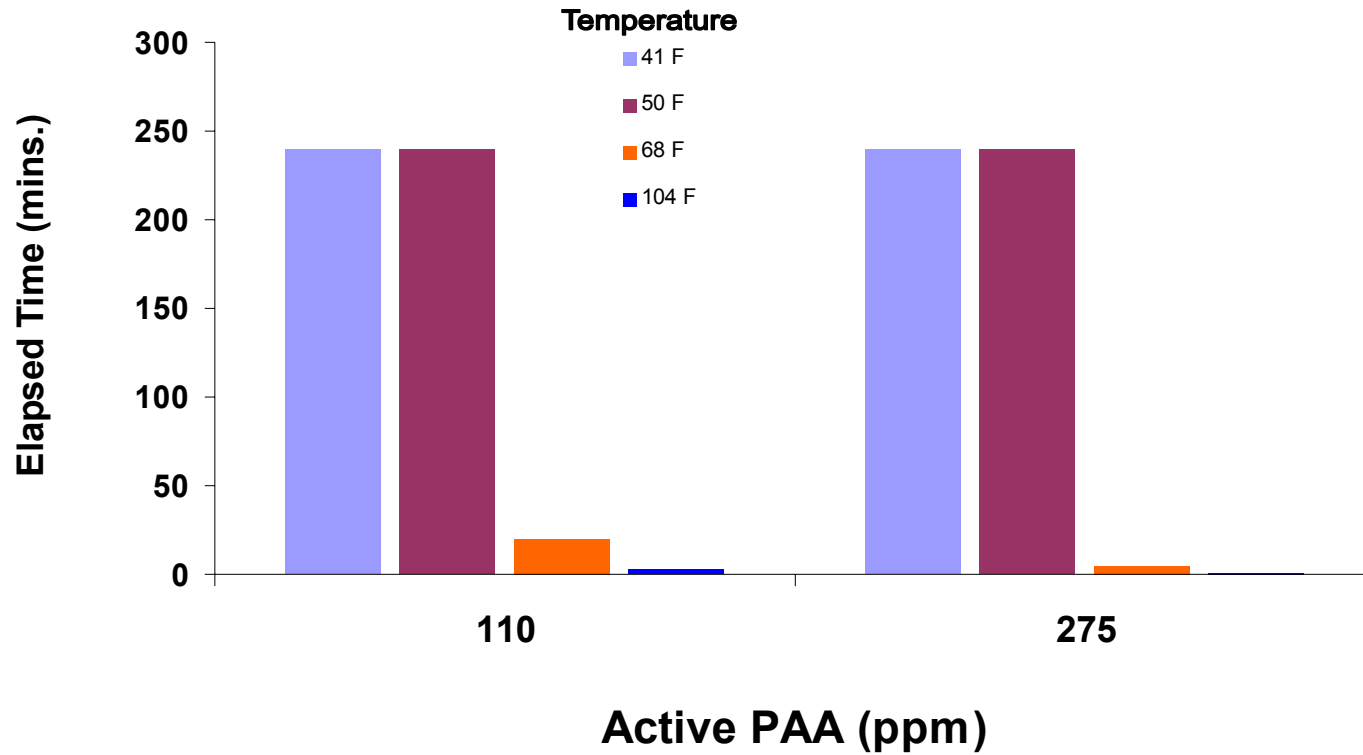
Aspergillus niger-mold

100% Kill Time of Aspergillus niger (mold)



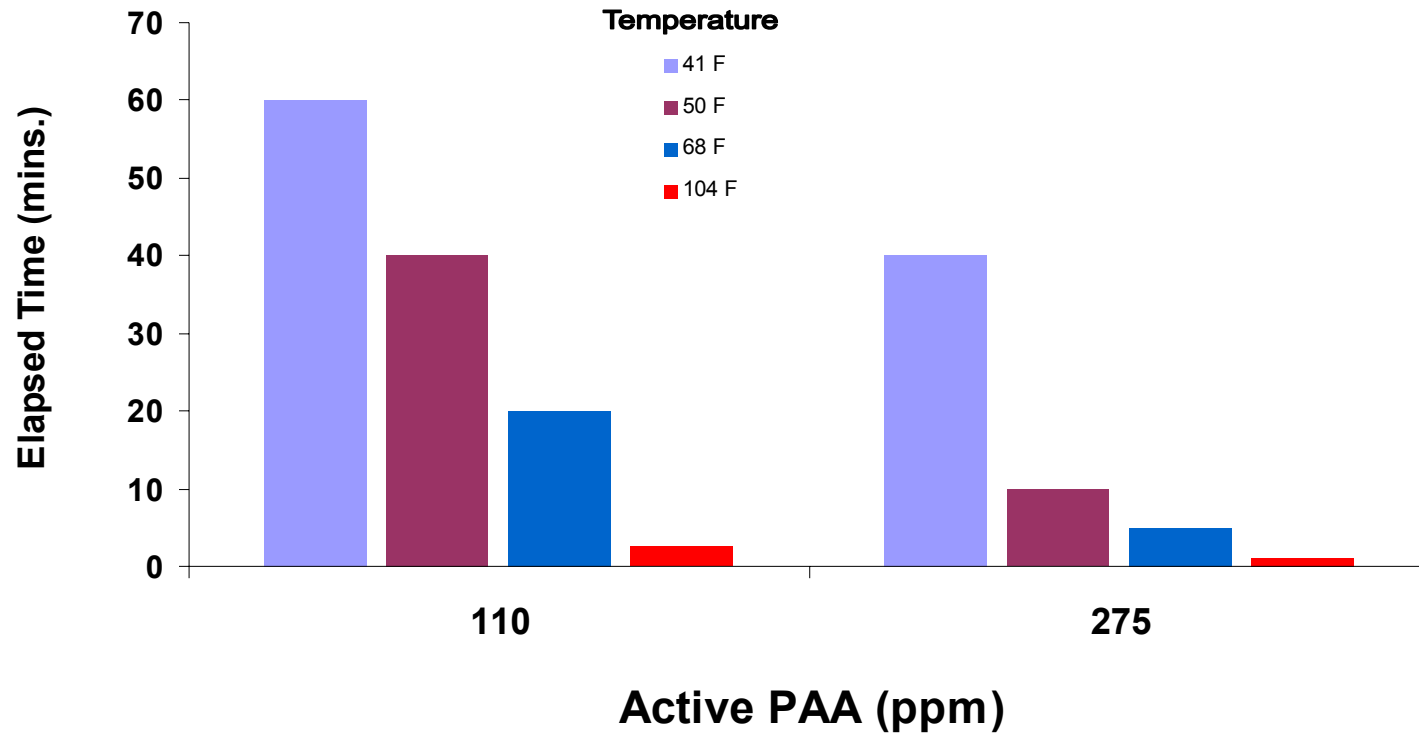
Mucor spececium-mold

100% Kill Time of Mucor spececium (mold)



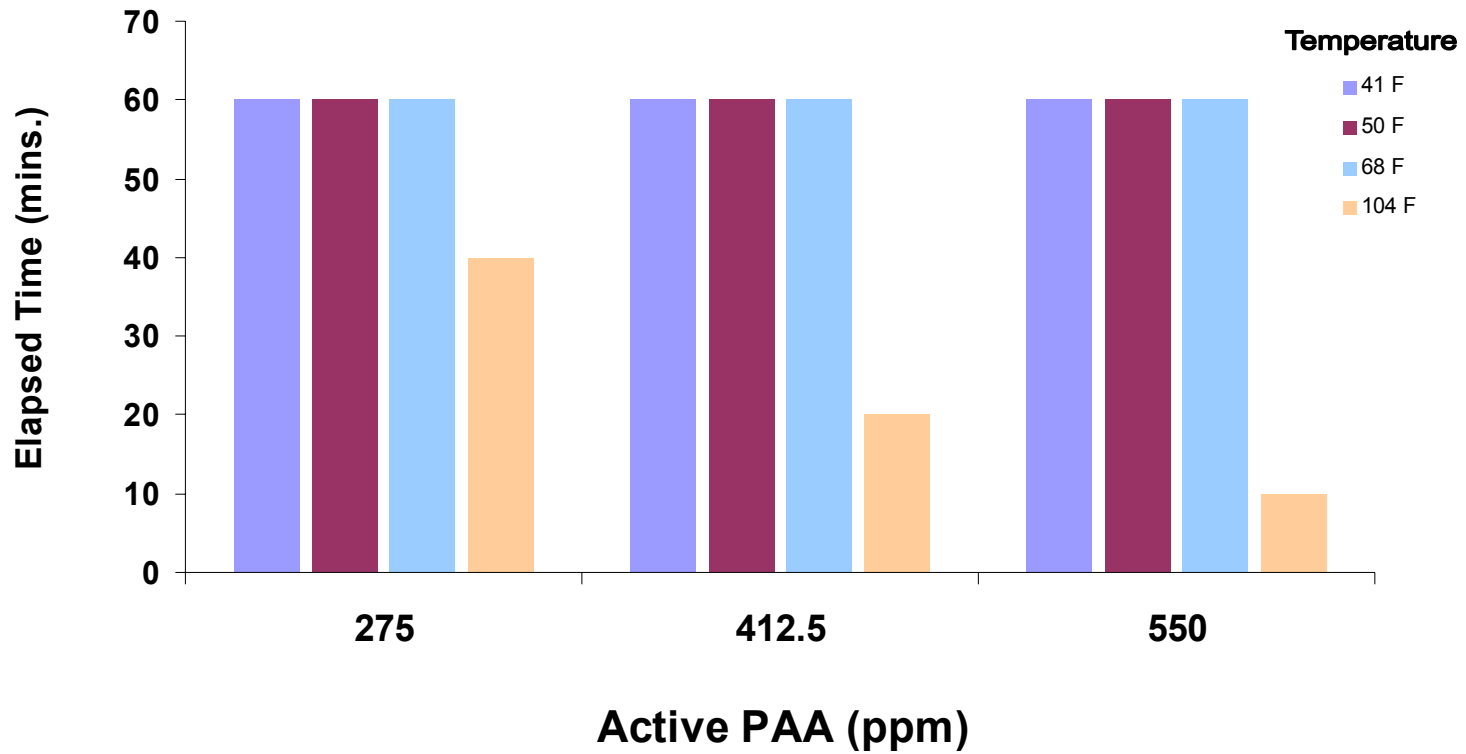
Geotrichum candidum-mold

100% Kill Time of *Geotrichum candidum* (mold)



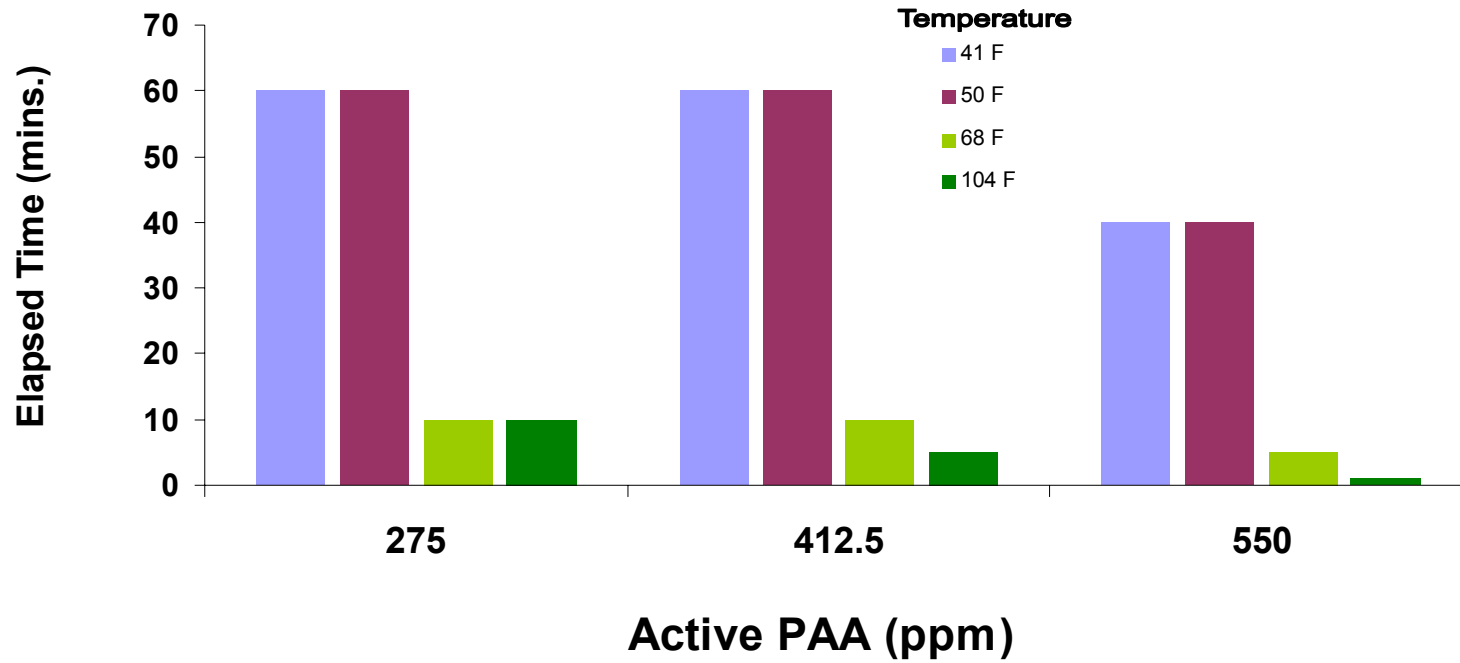
Bacillus cereus-spores

100% Kill Time of Bacillus cereus (spores)



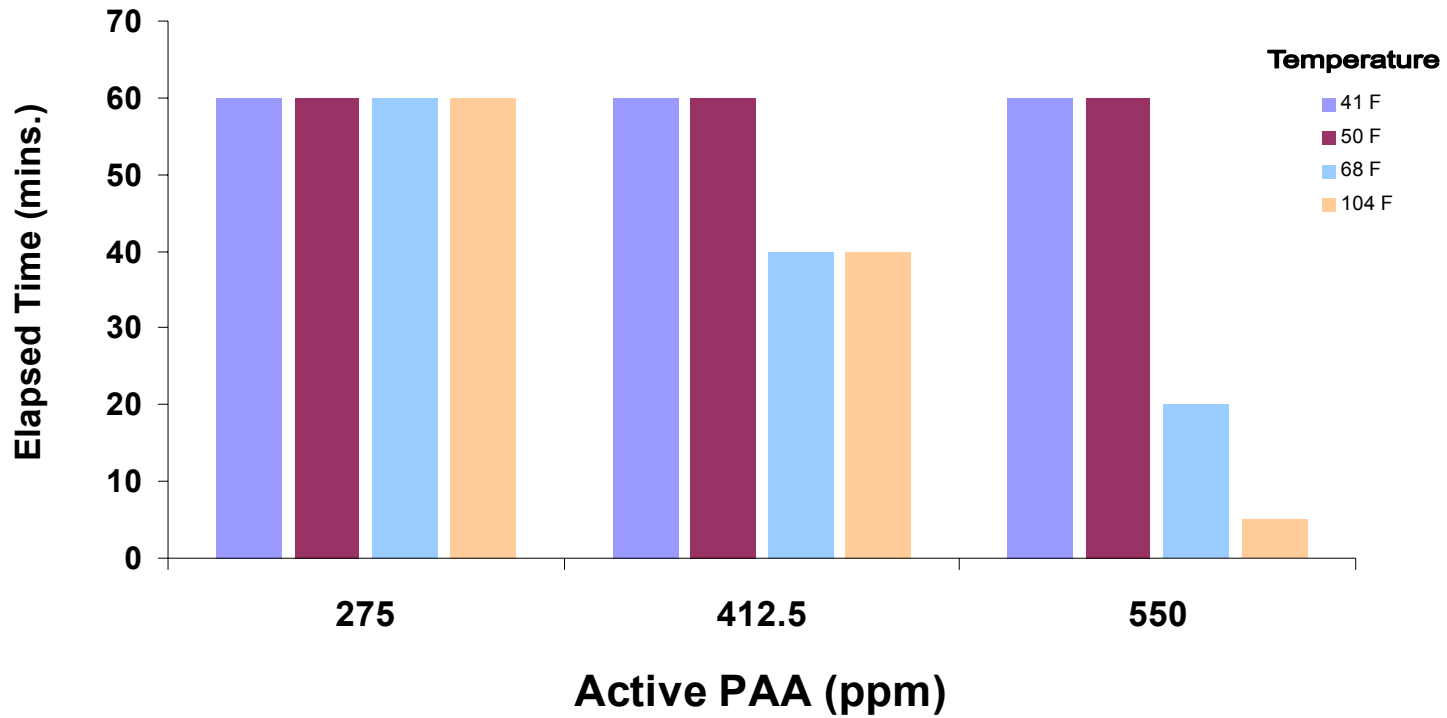
Bacillus subtilis-spores

100% Kill Time of Bacillus subtilis (spores)



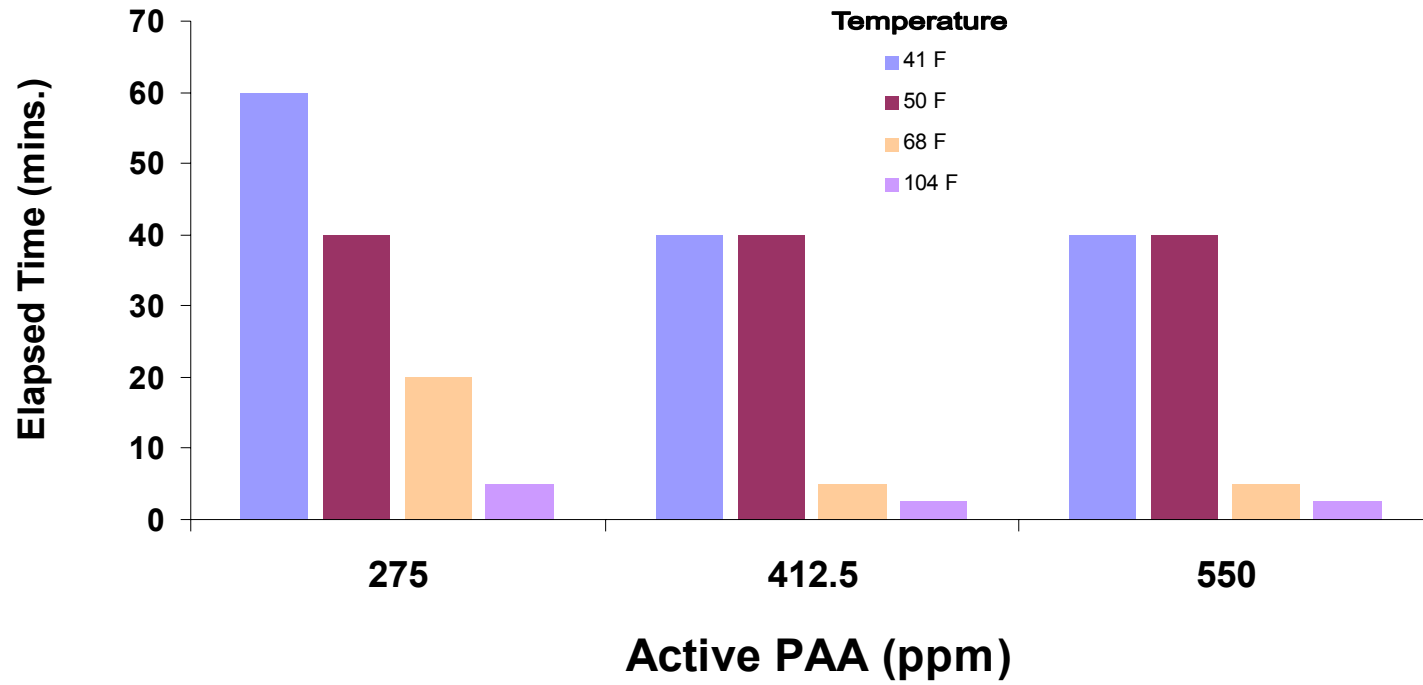
Bacillus mesentericus-spores

100% Kill Time of Bacillus mesentericus (spores)



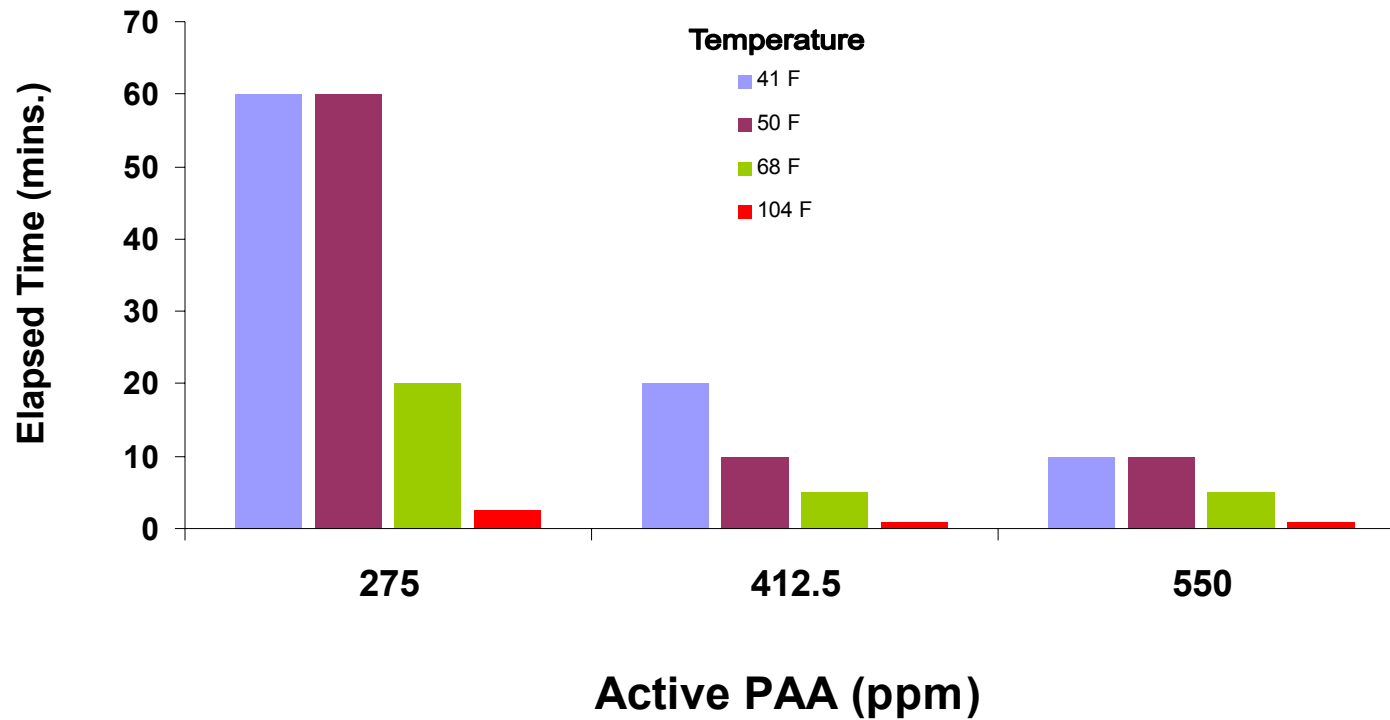
Thermophilic species-spores

100% Kill Time of Thermophilic spore-formers



Clostridium perfringens-spores

100% Kill Time of Clostridium perfringens (spores)



Clostridium specialis-spores

100% Kill Time of Clostridium spec.
(spores)

