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[PDF (460K)] [References]

## Heat Resistance of *Acanthamoeba sp.* Cysts in Green Mussel Broth and Phosphate-Buffered Saline

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Cysts propagated by the agar block method with heat-killed *Escherichia coli* as nutrient overlay were inoculated into *Perna viridis* broth (PVB) and phosphate-buffered saline (PBS) prior to exposure to 60, 75 and 100°C for 0, 3, 5, and 10 min. The heat resistance of *Acanthamoeba sp.* cysts expressed in of D- and Z- values were found to be greater in the complex organic PVB than in the aqueous PBS. The established D- values in the PVB were 81.20, 44.59, and 8.83 min at 60, 75, and 100°C, respectively. The calculated Z-value of *Acanthamoeba sp.* cysts in PVB was 40.28°C.

Keywords: D-value, Z-value, protozoon cysts, shellfish

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