ONLINE ISSN : 1881-3984
PRINT ISSN : 1344-6606

Food Science and Technology Research
Vol. 10 (2004) , No. 3 pp.320-323

[PDF (460K)] [References]

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

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(Received: February 16, 2004)
(Accepted: May 4, 2004)

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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To cite this article:

Heat Resistance of *Acanthamoeba sp*. Cysts in Green Mussel Broth and Phosphate-Buffered Saline Alonzo A. GABRIEL and Maria Patricia V. AZANZA, *FSTR*. Vol. **10**, 320-323. (2004) .

doi:10.3136/fstr.10.320
JOI JST.JSTAGE/fstr/10.320