

Heating solutions in vials for cancer research

Objective To heat solutions in vials to determine temperature differentials for cancer research

Material Five solutions with magnetic particles, vials

Temperature Check temperature values at 30 second intervals for 5 minutes

Frequency 226 kHz

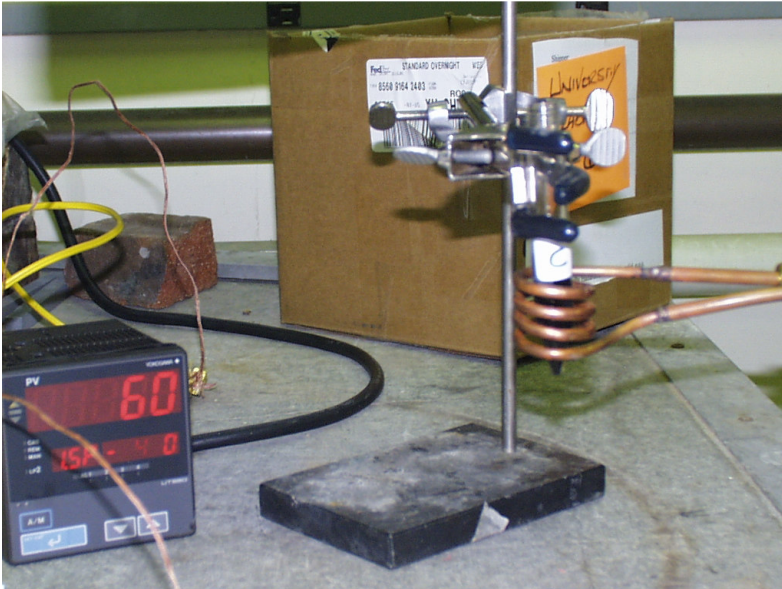
Equipment

- Ambrell 20 kW induction heating system, equipped with a remote workhead containing two 13.2 μ F capacitors for a total of 6.60 μ F
- An induction heating coil designed and developed specifically for this application.

Process A four turn helical coil is used to heat the vial for 30 second intervals for five minutes with a temperature reading taken at each interval. Each solution produced differing temperature profiles.

Results/Benefits Induction heating provides:

- Hands-free heating that involves no operator skill for manufacturing
- Even distribution of heating
- Ability to run consistent interval testing



Vial C being heated at 30 second intervals for testing

