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Innovative Surface Technologies

ISurTherm® Thermoresponsive Cultureware Instructions for Use

Please inspect the product to ensure there has been no damage during shipping and read the instructions prior to use for best performance.

This product is for research use only; it is not for human or veterinary use.

ISurTherm flasks are intended for single-use. Reuse may alter performance and can impair sterility. Each package has been sterilized via EtO gas and should not be re-sterilized to protect the coating's performance. ISurTherm flasks should be stored at ambient conditions out of direct sunlight until use.

Cell Culture Notes

- With the thermoresponsive coating, cells will attach above 32°C and it is recommended that incubation temperatures are above 32°C, optimally at 37°C.
- Seed cells evenly over the surface with prewarmed media (37°C) and use prewarmed media during any media changes to prevent cell detachment via temperature change.
- Avoid scratching the surface with a pipet tip to maintain the coating efficacy.
- Minimize time outside of incubation temperatures to prevent premature cell detachment due to temperature change.

Cell Release Protocol

- Harvest cells between 50-100% confluence by placing the flask at room temperature (below 25°C) under sterile conditions.
- Cells should spontaneously release within 30 minutes.
- Release can be quickened by initially changing the media with room temperature media at the start of the incubation.
- Any remaining cells can be released with gentle agitation or a media flush.
- ISurTherm is compatible with cell dissociation agents (e.g. EDTA); however these are not required for cell release.