

The Importance of Preventative Maintenance for Incubator Shakers

Why is routine temperature verification and calibration needed?

- ❖ Incubator Shakers are used for cell culturing, cell aeration, and solubility studies. Eliminating the need of placing a separate shaker inside an incubator, the instruments incorporate oxygen and evenly distribute nutrients throughout the culture media
- ❖ In addition to offering stable temperature conditions, the shaking incubators use an orbital agitation at variable speeds to affect the growth of cell cultures
- ❖ The unique environment of the incubator share supports simultaneous cultivation of adherent and suspension cultures
- ❖ The tiniest deviations in the culturing environment can result in undesirable outcomes due to the importance of consistency and reproducibility in cell culture applications
- ❖ Temperature verification is critical in incubator shakers as the unit needs to maintain optimal conditions while processing for accurate yields. These conditions include temperature, humidity, Carbon Dioxide, and oxygen

Why is routine preventative maintenance (PM) service important?

- ❖ Routine preventative maintenance service is targeted at the prevention of unexpected downtimes through thorough inspection and cleaning of the equipment
- ❖ Preventative maintenance ensures that your culturing environment is reliably maintained and controlled, maximizing culturing consistency and repeatability, optimizing culturing performance
- ❖ Designed to check, validate and to promote continuous and stable incubator performance, optimizing instrument conformity with programmed culturing parameters
- ❖ Annual PM service includes temperature and RPM calibration and is recommended by MarathonLS and the manufacturers

