**Purpose:**

This procedure outlines the steps for quality control and the schedule for preventive maintenance for the Helmer Quickthaw System.

**Procedure:**

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| --- | --- |
| **Quality Control** | |
| **Daily:** | * Record both the LED temperature and the external thermometer temperature of the water bath on the Helmer Quickthaw Daily QC Form. |
| **Monthly:** | * Verify the LED temperature and external thermometer with the Fluke thermometer, and record on the Helmer Quickthaw Daily QC Form. |
| **Quarterly:** | * Test the high temperature alarm by changing the set point of the thawer to 38.2 and allowing the chamber to heat to the new set point, which will activate the alarm. Document on the Helmer Quickthaw Daily QC Form. (See Helmer Quickthaw Operations Manual, section 5.5) |

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| **Preventive Maintenance Schedule** | | | | | |
| **TASKS:** Document on Thawer Daily QC Form | **Frequency** | | | |
| **Weekly** | **Quarterly** | **Annually** | **As needed** |
| * Clean the chamber and baskets. | **X** |  |  |  |
| * Clean the exterior. |  |  |  | **X** |
| * Clean the vents |  |  |  | **X** |
| * Lubricate the moving parts and check the basket bearings for wear. |  |  |  | **X** |

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| **Maintenance Instructions** | | |
| * Helmer Quickthaw Operations Manual, section 5.2 | Instructions for cleaning should be referenced prior to deviation from this SOP. | |
| * Cleaning chambers and baskets | * Use a soft cloth or sponge. Do not use an abrasive material. * Use a mild disinfectant suitable for stainless steel. In TSL these include soap or TB Quat disinfectant. * **NEVER use bleach** due to corrosion and damage to plastic parts. * Rinse thoroughly with water including a flow of water down the drain into the sink. | |
| **Maintenance Instructions (continued)** | | |
| * Cleaning the exterior and vents | | * Use a soft cloth or sponge. Do not use an abrasive material. * Use soap or a mild cleaning agent and water. * Wipe vents to improve airflow and prevent overheating. * Rinse with water. |
| * Maintaining Moving Parts | | * Bearings should be checked regularly for wear. * For lubrication, refer to the Operations Manual, section 5.3. |

**References:**

Helmer Quick Thaw Plasma Thawing System Operation Manual

Standards for Blood Banks and Transfusion Services, Current Edition: American Association of Blood Banks. AABB Press, Bethesda, MD.