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| **Operating IH-Centrifuge L** | | | | | |
| **Purpose** | This procedure provides instructions for operating IH-Centrifuge L. | | | | |
| **Procedure** |  | | | | |
|  | **Step** | Action | | | |
| Startup | 1 | Switch On the instrument. Main switch at the rear of the instrument. | | | |
|  | 2 | Wait for the end of the user interface initialization. *The main screen with the last settings used is displayed.* | | | |
|  | **Step** | Action | | | |
| Shutdown | 1 | Shutdown the instrument.    **Make sure that no process is running before shutting down the instrument.** | | | |
|  | 2 | A confirmation message appears. | | | |
|  | 3 | Switch OFF the instrument. Main switch (1) at the rear of the instrument. | | | |
|  | **Step** | Action | | | |
| Emergency Stop | 1 | Switch OFF the instrument to stop the centrifugation in an emergency. The instrument immediately interrupts the ongoing centrifugation and stops the centrifuge head rotation.    **Incomplete or interrupted centrifugation can lead to erroneous test results. Tubes or gel cards should be discarded.** | | | |
|  | **Step** | Action | | | |
| Centrifugation interrupted by the Centrifuge | 1 | The acceleration, vibrations and nominal speed are automatically monitored by the centrifuge. If the centrifuge detects a fault:   * The centrifugation is automatically interrupted; * The instrument issues an audible and visual alarm for centrifugation interruption.     **Incomplete or interrupted centrifugation can lead to erroneous test results. Tubes or gel cards should be discarded.** | | | |
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|  | **Step** | Action | | | |
| Preparing and Loading Tubes | 1 | Load the centrifuge head evenly to ensure that the centrifugation is not automatically interrupted by the integrated vibration sensor. | | | |
|  | 2 | If few than the maximun number os amples tubes are loaded, refer to the following loading options. Sample tubes filled with water can be used to balance the head | | | |
|  | 3 | Open the lid | | | |
|  | 4 | Carefully insert the head (1) guiding it along the spindle (2) until it audibly engages. The diver pin of the centrifuge head automatically slides into the drive spindle. | | | |
|  | 5 | Close the lid. A click indicates the lid is closed. The head detection sensor recognizes the type of head (after approximatively 5 seconds) and select the default settings. | | | |
|  | 6 | Start the centrifugation. | | | |
|  | 7 | Open the lid when the centrifugation cycle is completed. | | | |
|  | **Step** | Action | | | |
| Preparing Head 2 Racks | 1 | Load the head 2 racks evenly with the gel cards to be processed. To ensure that centrifugation is not automatically interrupted by the integrated vibration sensor. | | | |
|  | 2 | Load the rack in the Head 2 Racks. | | | |
|  | 3 | Open the lid | | | |
|  | 4 | Carefully insert the head (1) guiding it along the spindle (2) unit it audibly engages. The driver pin of the centrifuge head slides into the driver spindle. | | | |
|  | 5 | Close the lid. A click indicates the lid is locked. The head detection sensor recognizes the type of head (after approximately 5 seconds) and selects the default settings. | | | |
|  | 6 | Start the post-transportation centrifugation.   * Centrifugation time: 5 minutes * Centrifugation speed: maximum 85 g. | | | |
|  | 7 | Open the lid when the centrifugation cycle is completed. | | | |
|  | **Step** | Action | | | |
| Preparing Card Head | 1 | Load the card head with the gel cards to be processed.  For a correct positioning of the gel cards, insert them completely in the head. Orientate all protection foil strips facing outwards (1). | | | |
|  | 2 | If fewer than the maximum number of gel cards are loaded, refer to the following loading options. Loading options: 2, 3, 4, 6, 8, 12 or 24 gel cards. | | | |
|  | 3 | Open the lid | | | |
|  | 4 | Carefully insert the head (1) guiding it along the spindle (2) unit it audibly engages. The driver pin of the centrifuge head slides into the drive spindle. | | | |
|  | 5 | Close the lid. A click indicates the lid is locked. The head detection sensor recognizes the type of head (after approximately 5 seconds) and selects the default settings. | | | |
|  | 7 | Open the lid when the centrifugation cycle is completed. | | | |
| **References** | 1. IH-Centrifuge L User Manual, current addition | | | | |
| **Approval**  **Workflow** | Transfusion Service/Lab Director | | | | |
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| **Historical Record** | **Version** | | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | | S. Cassidy | 02/17/2023 | Initial Version |