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| **Blood Bank –80 Freezer Alarm Check** |
| **Purpose** | This procedure provides instructions for verify the functionality of the audible alarm system on blood component -80° C freezer storage equipment. |
| **Policy Statements** | * Alarm testing shall be performed initially with installation, after major repairs and a minimum of a quarterly basis
* The alarm should sound at a temperature that allows appropriate action to be taken before store components reach undesirable temperatures.
* Temperature changes should be allowed to occur slowly.
* Acceptable results
	+ High temperature of activation <-40° C
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| **Related****Documents** | [TSf 17.14.2 -80 Freezer Alarm Check Form](http://khan.childrensmn.org/Manuals/Lab/SOP/TS/Res/Sysf/199570.pdf) |
| **Materials** | Fisher Scientific IsoTemp Ultra-low freezer-Minneapolis, Model Number: U101-86* Serial Number: 1014-0110-0709
* Biomed Control number: 013401
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| **Procedure** |  |
|  | **Step** | Action |
|  | 1 | Unlatch freezer door. |
|  | 2 | Open top internal door  |
|  | 3 | Record the digital temperature reading at which the alarm sounds, the date of the test, and techs initials on TSf 17.14.1. |
|  | 4 | Press the Alarm Silence button to silence the alarm. |
|  | 5 | Shut internal door and re-latch external door of freezer. |
|  | 6 | Confirm temperature returns to acceptable range. |
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| **Interpretation** | Acceptable results: Alarm activation at a temperature <-40°CTake appropriate corrective action if temperatures of activation are too high, or if the alarm system fails to function as expected (does not activate or fails to deactivate). Record the nature of the corrections on the appropriate QC she and necessary repairs on the Equipment Service notebook.Corrective actions may include:* Retesting the alarm activation.
* Verifying the alarm is on.
* Verifying alarm set points (refer to instrument manual)
* Checking the battery/power source
* Contacting engineering or the manufacturer for service.
* Notify the section supervisor if the problem is not resolved.
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| **References** | AABB Standards, current editionUser guide for Fisher IsoTemp Ultra-low Temperature Freezer |
| **Approval****Workflow** | Transfusion Service/Technical Specialist |
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| **Historical Record** | **Version** | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | S. Cassidy | 10/29/2009 | Initial Version |
| 2 | S. Cassidy | 04/10/2011 | CMS format |
|  | 3 | S. Cassidy | 06/28/2017 | Change the temp for the High Alarm to <-40 |