

|                        |                                    |
|------------------------|------------------------------------|
| Business unit          | Nelson Mandela Academic laboratory |
| Laboratory to delivery | TB LAB NMAL                        |
| REQUISITION NUMBER     |                                    |
| Date of req            |                                    |

**Equipment: Centrifuge Refrigerated**

| Specification           | Detail                                                                                                            | Compliant | Non-compliant |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Drive                   | Brush induction                                                                                                   |           |               |
| Control                 | microprocessor                                                                                                    |           |               |
| Swinging bucket rotor   | 4700rpm: 4,255 x g                                                                                                |           |               |
| Fixed angle rotor       | 18000 rpm: 29,29,756 x g                                                                                          |           |               |
| Programmability         | Pre-set, most recent, visual digital                                                                              |           |               |
| Balance detection       | Electronic with alarm and cut off.                                                                                |           |               |
|                         | Advanced imbalance detection                                                                                      |           |               |
| Dimensions              | Floor standing alone                                                                                              |           |               |
| Voltage                 | 120V 230V 220-240V+/- 10% 50H                                                                                     |           |               |
| Run time                | Set & Continuous (unlimited)                                                                                      |           |               |
| Decibel                 | <60                                                                                                               |           |               |
| Manufacturers standards | ISO13485/9001                                                                                                     |           |               |
| Refrigeration           | Yes with rapid cooling                                                                                            |           |               |
| Maximum capacity        | 4X400 ml                                                                                                          |           |               |
| Tube sizes              | 5-50 ml sample tubes                                                                                              |           |               |
| Adaptor bucket safety   | Aerosol tight, lids view portal                                                                                   |           |               |
| Lid                     | Lock with safety release                                                                                          |           |               |
| Safety measure          | Centrifuge can only start with lid properly locked                                                                |           |               |
| Speed                   | Set to reach required speed in seconds<br>Minimum speed n max 300rpm & maximum speed RCF value at n max 25314 x g |           |               |
| Maintenance             | Free induced motor/quiet & low vibration                                                                          |           |               |
| Control panel display   | Digital easy pre-set- RCF values, visible running profile. Control panel display                                  |           |               |
| Rotor                   | Integrated rotor system: no inadmissible speed setting with electronic imbalance recognition. Removable rotor     |           |               |
| Ambient temperature     | Permissible +2°C -35°C, heat dissipation ventilated, refrigerated & floor standing model                          |           |               |
| Bucket                  | 4 & adapters for 50 mls tubes sets with lockable caps. 40x50ml conical 96/15 ml conical                           |           |               |
| Kinetic energy          | Maximum <62,5KJ,                                                                                                  |           |               |
| Noise level             | 64Db (A) maximum                                                                                                  |           |               |
| Warrantee period        | Minimum 2 years                                                                                                   |           |               |
| Operators manual        | Yes                                                                                                               |           |               |
| Calibration certificate | Yes- upon commissioning                                                                                           |           |               |

|                          |                                                                                                                           |      |  |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|------|--|
| Preventative maintenance | Minimum of one year within warrantee period with calibration certificate and train staff on usage and routine maintenance |      |  |
| Delivery time            | 4-6 weeks to the laboratory                                                                                               |      |  |
| Lab Supervisor           | Bonnie Ifeadi                                                                                                             | sign |  |
| QAC                      | X. Madikane                                                                                                               | sign |  |
|                          |                                                                                                                           |      |  |

  
 25/05/2023  
  
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