

General checklist for HOKLAS Supplementary Criteria for Medical Laboratories –

In general, a separate checklist should be completed and returned for each medical discipline. A completed checklist may also be used for more than one discipline if their practice is identical. In any case, the discipline/s to which this completed checklist applies should be shown by ticking the box/es shown below.

Information provided in this general checklist represents the following disciplines / laboratories (please tick):

Anatomical Pathology	<input type="checkbox"/>	: Autopsy	<input type="checkbox"/>	Histology	<input type="checkbox"/>	Cytology	<input type="checkbox"/>
Chemical Pathology	<input type="checkbox"/>						
Clinical Microbiology and Infection	<input type="checkbox"/>	: General Microbiology	<input type="checkbox"/>	Virology	<input type="checkbox"/>	Mycobacteriology	<input type="checkbox"/>
Haematology	<input type="checkbox"/>	: General Haematology	<input type="checkbox"/>	Blood Bank	<input type="checkbox"/>		
Immunology	<input type="checkbox"/>						
Medical Genetics	<input type="checkbox"/>	: Molecular Genetics	<input type="checkbox"/>	Cytogenetics	<input type="checkbox"/>		

HOKLAS Supplementary Criteria – General Checklist

Management requirements	Clause (HOKLAS 015, 4 th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	[*] 1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Examination by referral laboratories	4.5	4.5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Has each referral laboratory to which the specimens are sent been approved by the person-in-charge?	4.5.1	4.5.1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a written procedure on specimens or confirmatory tests referral, including which types of tests are to be referred to which laboratory?	4.2.1	4.5.1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are extra-departmental cases that are submitted for consultation properly recorded and a written report issued?	4.5.3	4.5.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a ●; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

HOKLAS Supplementary Criteria – General Checklist

Management requirements	Clause (HOKLAS 015, 4 th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	* 1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are extra-departmental cases submitted for review accessioned according to the standard practices of the laboratory, a written report issued and a copy of this report sent to the original laboratory?	4.5.4	4.5.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Advisory services	4.7	4.7						
Does the laboratory hold meetings with or contact laboratory users to obtain their feedback on services provided, appropriateness of reference ranges, critical/alert values etc.?	4.7	4.7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If the institution operates a blood bank, does it have a Blood Transfusion Committee?	4.7	4.7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Identification and control of nonconformities	4.9							
Are there any records of actions taken when daily QC results are out of limit?	4.9.1	4.9 (h)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Have actions been taken to review test results released between current QC failure and last successful QC event?	4.9.3	4.9 (e), (f)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there instructions for acceptance and rejection of test results when QC results indicate problems or deficiencies?	4.9.3	4.9 (d), (e), (f) and 5.6.2.3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a ●; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

HOKLAS Supplementary Criteria – General Checklist

Management requirements	Clause (HOKLAS 015, 4 th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	[*] 1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Quality and technical records / Control of records	4.13	4.13						
Are there documented policies and operating procedures to guide the proper storage and handling of records (such as retrieval and disposal) so as to ensure their integrity and confidentiality?	4.13.1	4.13.1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all quality control records retained for at least 3 years as required by HKAS (including those QC data kept electronically)?	4.13.3	4.13.H (g)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the operator performing the test and checking the result traceable from the laboratory records?	4.13H (d)	4.13H (d)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are raw data/original observations kept for the test results?	4.13H (b)	4.13H (c)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If computer systems are used, are there procedures for checking transcription, calculation, or data entry errors?	4.13H (g)	4.13H (f)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the laboratory retain records (electronic and/or hardcopy format) for an appropriate time interval pursuant to the professional, statutory, legislative and HOKLAS requirements?	4.13.H SC-23 5.1 SC-24 9.1 SC-25 8.1 SC-26 6 SC-28 Table 1 SC-29 4 SC-30 Table 1 SC-35 Table 1	4.13.H SC-23 5.1 SC-24 9.1 SC-25 8.1 SC-26 6 SC-28 Table 1 SC-29 4 SC-30 Table 1 SC-35 Table 1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
N.B. In general, HOKLAS requires all records to be retained for at least three years. Please refer to respective supplementary criteria for those otherwise specified.								

Note: 1. The assessor should concentrate on items marked with a ●; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Personnel	5.1	5.1						
Are staff qualifications appropriate?		5.1.2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
N.B. Please pay attention to specific requirements for personnel under respective supplementary criteria.	SC-23 2 SC-24 3 SC-25 3 SC-26 3 SC-27 3 SC-28 3 SC-29 3 SC-30 3 SC-35 3	SC-23 2 SC-24 3 SC-25 3 SC-26 3 SC-27 3 SC-28 3 SC-29 3 SC-30 3 SC-35 3						
Does the supervisor in charge of a test area have relevant experience in medical testing for at least three years and experience in that responsible area for at least one year and is Part-I registered for at least one year?	5.1.H	5.1.H		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is training given to staff for specific assigned duties?	5.1.4 (g)	5.1.5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the competency of staff assessed following training, and reassessed periodically, especially for tests that required professional judgment and skills?	5.1.11	5.1.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Has a continuing education programme been devised for managerial and technical staff and is it periodically reviewed for its effectiveness?	NA	5.1.8						
Accommodation and environmental conditions	5.2	5.2						
Is there adequate space allotted to :	5.2.1							

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Note:

1. The assessor should concentrate on items marked with a ●; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are vessels containing flammable liquid kept covered at all times?	5.2.2	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Where corrosive solutions are used, are there emergency overhead shower facilities located in appropriate areas?	5.2.2	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there emergency eye wash facilities available and located in appropriate areas?	5.2.2	5.2.2 (e)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a maintenance record of these emergency facilities (shower or eyewash)?	5.2.2	5.2.2 (e)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the laboratory provide a comfortable working environment with respect to	5.2.4	5.2.6						
- lighting?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- temperature?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- ventilation?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- noise level?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are utilities (water, sink, electrical) sufficient?	5.2.4	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the environmental condition monitored, where appropriate, with respect to the following	5.2.5	5.2.6						
- the vapour concentrations of formaldehyde (ceiling limit <0.3ppm) at the recommended frequency of every 1-3 months?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
- the vapour concentrations of xylene (time weighted average <100 ppm) at the recommended frequency of every 3-6 months?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- the environmental temperature and humidity where sensitive instruments are in use?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- the microbiological air quality of work places where clean operation is expected e.g. media preparation room for microbiology			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are adequate power points available (the use of double adapters and long extension cords is undesirable)?	5.2.5	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are voltage regulators / stabilizers / uninterruptible power supply used on instruments that require these items?	5.2.5	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is essential electrical supply available?	5.2.5	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a dedicated and/or adequate electricity supply provided for automated instruments which have special electrical criteria?	5.2.5	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are incompatible activities such as the following segregated?	5.2.6	5.2.6						
- cutting areas for fresh and fixed specimen from the rest of the work areas			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- bulk flammable liquids stored in a separate storage room or chemical safety cabinet and in volumes in compliance with regulations?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- a distinct space, in line with the biosafety requirements, for performing microbiological testing?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
- a separate room dedicated for processing mycobacteriology?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If radioactive substances are handled in the laboratory:								
- does the laboratory carry a valid license?	5.2.H	5.2.H	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- is the background radiation checked?	5.2.5	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- are monitoring badges in use, and the exposure records kept?	5.2.2	5.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- are radioactive substances properly disposed of to ensure that they pose no hazard to laboratory workers or to the community?	5.3.6	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- are guidelines for safe handling of radioactive substances available	5.2.H	5.2.H	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Are there conventional signs to indicate the presence of radioactive materials in all areas or rooms where radioactive materials are being used or stored?	5.2.2	5.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Are areas for radionuclide handling, storage and decay properly shielded?	5.2.2	5.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there adequate freezers and refrigerators for storing reagents, unfixed specimens, processed and unprocessed specimens, cultured plates and microorganisms?	5.2.9	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are specimens and reagents stored segregated in different compartments in freezers and refrigerators?	5.2.9	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a deep freezer (-80°C) available for long-term storage of fresh tissues, cultures, extracted RNA and extracted DNA?	5.2.9	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is the storage area e.g. for processed specimens, slides, blocks, adequately ventilated with temperature and humidity suitable for storage of the material?	5.2.9	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are reagents correctly kept according to manufacturer's recommendations, especially where special storage conditions are required (refrigeration, flammable store, dark storage)?	5.2.9	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the laboratory space clean and well-maintained?	5.2.10	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the specimen reception area clean and disinfected at least daily?	5.2.10	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is waste segregated, bagged and disposed of according to relevant regulations?	5.2.10	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are sharps, microtome knives, contaminated needles discarded in clearly labeled, puncture resistant containers?	5.2.10	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there adequate drainage/sewerage for solvent and biological waste disposal which are conformed to relevant local authorities' requirements?	5.2.10	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are washrooms, a supply of drinking water and facilities for storage of personal protective equipment and clothing provided to staff?	N/A	5.2.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Equipment / Laboratory equipment, reagents, and consumables	5.3	5.3						
Are new lots of reagents validated and critical reagents verified before being used?	5.3.2	5.3.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is planned preventive maintenance available for all instruments in use?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there any instruction and documentation for routine checking and maintenance of instruments?	5.3.2	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the laboratory have copies of the Manufacturer's Work and Maintenance Manuals for each analyzer?	5.3.4	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are adverse incidents and accidents that can be attributed directly to specific equipment investigated and reported to the manufacturer and appropriate authority, as required?	N/A	5.3.1.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are records on calibration, performance verification and maintenance of all equipments available and ready for inspection?	5.3.4	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is performance of instruments recorded in a manner that may reveal trends of malfunctions?	5.3.4	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there evidence of active review of instrument maintenance, function and temperature on all shifts?	5.3.4	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there any record of actions taken whenever equipment malfunction has been detected?	5.3.4(j)	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a written procedure for the safe and proper operation of the equipment?	5.3.5	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all equipment maintained under adequate and stable electrical supply?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are specific areas or specially designed containers available for storage of volatile chemicals and flammable solvents?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are safety guidelines available for handling hazardous, toxic and caustic chemicals and appropriate spillage kits available?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the following instruments properly located in a low traffic area, or one in which traffic can be controlled while they are in use?	5.3.6	5.3.1.5						
- Biosafety cabinet			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Centrifuge			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Fume hood			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Laminar flow cabinet			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- Pressure cooker			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a written routine maintenance procedure for decontaminating or routine cleansing of equipment?	5.3.8	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Autoclave Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are there records kept for autoclave operations, including cycle temperature and time, results of checking, materials autoclaved for that particular load.	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the adequacy of each cycle recorded with one of the following:	5.3.2	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- thermocouple and recorder to produce a chart or printout of temperature;								
- maximum thermometer to record the actual temperature the cycle attained;								

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
<ul style="list-style-type: none"> - indicators such as Brownes tubes, thermalog strips, etc.; - biological indicators such as spore strips; - reading obtained from panel of autoclave? 								
On top of monitoring each cycle, is the effectiveness of operation of the autoclave checked monthly with a biological indicator?	5.3.2	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are records kept for periodic overhaul maintenance of autoclaves?	5.3.4	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there any temperature-sensitive tape used to identify materials that have undergone the heating process?	5.3.2	5.3.1.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Automated machines and systems								
Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is there a contingency plan or manual back up available in case the automated system is out of service?	5.3.1	4.1.1.4 (n)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the backup system commensurate with the workload handled by the laboratory?	5.3.1	4.1.1.4 (n)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Balance Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is a beam balance available for balancing the load before centrifugation?	5.3.1	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are recognized standard weights available where necessary and the weights appropriately stored?	5.3.1 5.3.6	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are records available for periodic repeatability checks and regular checks with known mass?	5.3.4 (h)	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are analytic balances mounted on vibration – free benches in areas free from draught?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are balances clean, regularly serviced and records kept?	5.3.12	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Biological safety cabinet and Laminar flow cabinets								
Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is the biological safety cabinet available in the laboratory of appropriate class suitable for the intended use?	5.3.1	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the exhaust systems of vented biological safety cabinets designed without connection to other systems, with proper sealing and with the exhaust vent in a safe location relative to the ventilation intake systems?	5.2.2	5.2.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the biological safety cabinets/laminar flow cabinets checked at least annually to ensure that filters are functioning properly and that airflow meets specifications and documented?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the laboratory have a policy on when to change HEPA filters?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all the controls, warning lights and alarms of the safety cabinet tested daily and recorded to ensure that they are working correctly?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the maintenance record of the cabinets, including change of pre-filters and HEPA filters, readily available?	5.3.4	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are HEPA filters or main filters changed only by trained engineers when indicated and documented?	5.3.5	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is the cabinet at least 4 feet away from any supply air grilles (downward airflow)?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a documented protocol and a record of decontamination of the biological safety cabinet at defined interval and before changing filters or maintenance available?	5.3.7	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the supervisor check on details of the maintenance report provided by the contractor before filing?	5.3.10	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is a full maintenance check done and recorded whenever the cabinet has been relocated or after filters have been changed?	5.3.10	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the cabinet interior free from clutters that may interfere with adequate airflow?	5.3.14	5.3.1.4 (f)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Centrifuge Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are operating speeds and timing regularly checked and recorded to ensure that they meet the test specifications?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there written instructions for measures controlling aerosol generation?	5.3.5	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are safety buckets in use or tubes spun with caps on?	5.3.5	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are these instruments properly mounted with rigid support and in a convenient position for operation?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are sealed containers used in centrifuges and/or are centrifuges vented to avoid contamination of the work area?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a written procedure for decontaminating or handling spills or breakage?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is there a written procedure and record for decontaminating centrifuge buckets routinely?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Compressed gas Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are compressed gas cylinders kept away from flame or heat sources?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the cylinders secured in position and prevented from falling?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are cylinders transported on specially designed trolleys?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Electrophoresis equipment Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is the displayed voltage reading confirmed by a voltmeter?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the electrodes and buffer tank intact, power supply electrodes of snug fit and free from build up of dried buffer?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Film processing / Photographic equipment								
Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is the film processing (developing) equipment under a regular service and repair system?	5.3.4(i)	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the fixed camera mountings secured and leveled?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Flow cytometer Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are guidelines adopted and implemented for laser safety, carcinogenic dyes and infectious biohazard risks?	5.2.2 5.3.6	5.2.6 5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are there actions and documentations to monitor optical alignment and laser sensitivity of flow cytometer each time prior to analysis?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
For flow cytometer, are fluorochrome standards run each day prior to analysis as part of calibration process; and are results documented for quality control purposes?	5.3.2 5.6.1	5.3.1.5 5.6.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there processes to ensure acceptable and constant laser current of flow cytometry?	5.3.2	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there regular procedures for determining appropriate colour compensation settings of flow cytometer?	5.3.2	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are logs of flow cytometer calibrations and laser integrity checks regularly reviewed and audited?	5.3.4	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Fluorescence microscope Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are the barrier filters appropriate and adequate?	5.3.2	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are bulb hours recorded for the fluorescent microscopes?	5.3.4 (k)	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the microscopes properly mounted on vibration – free benches?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the fluorescent light source shielded to protect personnel from direct light?	5.3.8	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Fume hood Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are they certified annually to ensure that filters are functioning properly and that the airflow rates are appropriate and documented?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is there an alarm system to indicate when function is impaired?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are they located at least 4 feet away from any supply air grilles (downward air flow)?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are they free from obstruction that may interfere with adequate airflow?	5.3.14	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Incubators (water bath, air, water jacketed, aluminium block, thermocycler, oven) Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is spatial temperature distribution determined annually for large incubators such as warm rooms and records kept?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the set temperature and allowable temperature range of each incubator defined?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the temperature of each incubator checked and recorded at least daily?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
For water baths or heating blocks which are switched on only at use, is the temperature checked at time of use? Are records kept?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are individual wells of a thermocycler checked for temperature accuracy before being placed in service and periodically thereafter?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there clear instructions prohibiting the use of these equipment to store substances with flash point lower than the set temperature?	5.3.5	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Microscopes Available <input type="checkbox"/> Not available <input type="checkbox"/>								

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are suitable attachments (e.g. phase contrast, darkfield) available when necessary, and appropriately used?	5.3.1	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are polarizing filters available for use, when necessary?	5.3.1	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the laboratory's microscope regularly cleaned and well maintained?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
For anatomical pathology laboratory, is there any conference microscope or multi-head facility or video monitors enabling simultaneous viewing, discussion and consultation by more than one personnel?	5.3.2	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is illumination sufficient for all powers of magnification in use?	5.3.2	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Microscope, Electronic Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is the electron microscope suitable for the type of services being offered?	5.3.1	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the electron microscope checked for x-ray leakage at the time of installation and after major repair?	5.3.2	5.3.1.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are instrument maintenance, service and repair records (or copies) promptly available to, and usable by, the technical staff operating the equipment?	5.3.4	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the electron microscope under a regular maintenance and repair system?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the electron microscope adequately shielded to prevent irradiation?	5.3.8	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is radiation from the electron microscope checked periodically and after major repair?	5.3.10	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the magnification calibrated after major maintenance?	5.3.10	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there policies and procedures established for electron microscopy preparations and operation?	5.3.12	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
pH meters Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are high quality buffers (certified assay of content) used for calibration of the pH meters?	5.3.2	5.3.1.4?	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is a record of calibration kept on days of use?	5.3.2	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there written instructions for the proper operation, calibration and functional checks of pH meters?	5.3.5	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Pipettes and pipetting devices Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are volumetric pipettes certified or verified? (i.e. Gravimetric)	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there written procedures for calibration of pipettes?	4.2.1	5.3.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are automatic/semi-automatic pipettors checked for accuracy and reproducibility before being placed in service, and intermediate checks carried out regularly to confirm their ongoing acceptability for use :	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- e.g. every three months or less frequent with justification?	5.3.4(h)		•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- after major service and/or repair?	5.3.10		•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2 Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
- whenever necessary for troubleshooting?	5.3.10		•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there records of all calibrations and checking?	5.3.4 (i)	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Radio assay instrumentation Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is the spectrometer's high voltage calibrated and recorded using calibrated reference standards ("peaking") and compared to previous values?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are daily background counts taken and recorded at discriminator values (windows) for the intended radioisotope use prior to each use of the instrument?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there written criteria for unacceptable background levels?	5.3.2	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are counting times sufficiently logged for statistical accuracy?	5.3.2	5.3.1.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are recovery studies performed when setting up an assay and at regular intervals thereafter?	5.3.2	5.5.1.3 and 5.6.2.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are regular radiation area surveys and wipe tests carried out and records maintained?	5.3.4	5.2.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are radiation survey equipments calibrated regularly?	5.3.4 (i)	5.3.1.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there written procedures for handling radioactive waste?	5.3.6	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Reagent, General Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are reagents properly labeled with content, concentration (if applicable), date of preparation or date opened, and expiry date?	5.3.2	5.3.2.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are reagents stored at a condition according to manufacturer's instructions?	5.3.2	5.3.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are reagents used within their shelf life?	5.3.2	5.3.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are outdated reagents quarantined or discarded?	5.3.2	5.3.2.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Refrigerators & Freezers Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Is emergency power available for each blood storage refrigerator/freezer in blood banks?	5.2.4	5.3.1.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is emergency power or a contingency plan available to cater for electricity failure for refrigerators and freezers storing critical reagents and samples?	5.2.4	4.1.1.4 (n)						
Are they free of improper items (i.e. food, open bottles, etc.)?	5.2.10	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all refrigerators/freezers used for storing blood products equipped with a temperature recorder for continuous monitoring of the storage condition?	5.3.1	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are temperatures monitored regularly and recorded?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are records of temperature recorder checked daily?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the temperature sensor of blood refrigerator placed in 150-250 mL of fluid?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are temperature tolerance limits defined?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is spatial temperature distribution determined annually for large refrigerators and cold rooms, and records kept?	5.3.2	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are there documented procedures to ensure that temperature sensitive reagents are placed in non-defrosting refrigerators as far as possible; otherwise, are records kept for evaluating whether their qualities are affected by the storage condition?	5.3.2	5.3.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are only non-temperature sensitive reagents stored in refrigerators/freezers without temperature monitoring?	5.3.2	5.3.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are refrigerator and freezer doors free from temperature sensitive reagents?	5.3.2	5.3.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there documented evidence of corrective action when temperature tolerance limits are exceeded?	5.3.4 (j)	5.3.1.7 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are protective mitts available for use when loading and unloading the deep freezers?	5.3.12	5.2.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Spectrophotometers Available <input type="checkbox"/> Not available <input type="checkbox"/>								
Are absorbance and photometric linearity checked periodically with filters or standard solutions as required by the instrument manufacturer?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is spectrophotometer wavelength calibration checked and documented regularly with appropriate solutions, filters or emission line source lamps as required by the manufacturer?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is stray light checked periodically with extinction filters or appropriate solutions as required by the manufacturer?	5.3.2	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all curves rerun regularly and/or verified after servicing or recalibration of the instrument for procedures using calibration curves?	5.3.10	5.3.1.5	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Thermometers Available <input type="checkbox"/> Not available <input type="checkbox"/> Are all thermometers calibrated against a calibrated "reference thermometer" before being placed into service? Are they recalibrated at defined interval against "reference thermometers"? Have all correction factors been taken into account when the working thermometers are used for measuring temperature?	5.3.2 5.3.2 5.3.13	5.3.1.4 5.3.1.4 5.3.1.4	• • •	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Water Available <input type="checkbox"/> Not available <input type="checkbox"/> Is the type of water used in the laboratory appropriate for the intended use? Is the quality of the reagent water checked periodically and the results documented? Is the bacterial content of purchased water tested monthly once the container is opened and results recorded?	5.3.2 5.3.2 5.3.4(h)	5.4.6 5.4.6 (a) 5.4.6	• • •	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Pre-examination procedures / processes Does the request form include : - unique identification of the patient/body? - a second unique identifier? - date and approximate time of death (for autopsy)?	5.4 5.4.1	5.4 5.4.3	• • •	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
- date of sample collection and where relevant, time of collection?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- name or unique identification of requesting doctor?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- test requested? (in case of autopsy, limited or full autopsy?)			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- relevant clinical information and diagnosis?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- type of sample and anatomical site of origin			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is this manual readily available at all collection sites?	5.4.2	5.4.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the user manual for the proper collection and handling of specimens include the following:	5.4.3	5.4.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- personal safety and spill handling?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- request for relevant clinical information such as drug history?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- instructions to patients for proper collection of random/timed urine specimens and information on the content in the container for special tests?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- instructions to patients for the need to fast or other special requirements such as dietary and drugs restriction?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- instructions for the sample collector to record his/her identity?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
- special sample handling requirement such as need for protection from light, immediate delivery, transportation in low temperature or no refrigeration, etc.?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- guidelines for the number and/or timing of collection of specimens sent for bacterial testing, where relevant?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there written instructions for specimen reception?	5.4.2 5.4.7	5.4.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there documentations detailing methods for specimen labeling, specimen preservation and storage before testing?	5.4.3	5.4.4.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are specimens on receipt properly and adequately identified with two unique identifiers (e.g. the patient's name, identity card number, clinic/hospital number, passport number, etc) on the slides or on the primary containers and are these identical to those on the request forms?	5.4.5 5.4.H	5.4.6 (a) 5.4.H	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
For primary specimens received in the form of microscopic slides (e.g. tissue slides, conventional PAP smear), is the slide (not the mailer) labeled with the patient identity?	5.4.5	5.4.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there any procedure to handle sample(s) with uncertainty?	5.4.5	5.4.6 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If multiple samples are taken from the same patient on the same day, or by the same procedure, can they be identified with an appropriate system?	5.4.7	5.4.6 (a)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are samples checked for the appropriate type and volume of fixative being added, as necessary?	5.4.8	5.4.6 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are specimens checked for the appropriate type of anticoagulant in use and in the correct final concentration?	5.4.8	5.4.6 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there criteria for rejection of specimens due to incorrect labeling, inadequate specimen, unidentified specimens, or unauthorized requests?	5.4.8	5.4.6 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the integrity of specimens inspected upon receipt and are they rejected when they fail to meet the predefined criteria e.g. delayed delivery, inappropriate containers or preservation and leaking containers?	5.4.8	5.4.6 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there a record system for rejected sample(s)?	5.4.8	5.4.6 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the identity of every specimen and/or piece of tissue maintained through each step in processing, including aliquots and portions, and/or slide preparation?	5.4.5 5.4.12	5.4.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all blocks or stained slides identified by an accession number and/or the patient's name?	5.4.12	5.4.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all slides prepared checked to ensure they are correctly labeled with the right accession numbers during preparation?	5.4.12	5.4.6	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Examination procedures / processes	5.5	5.5						
Is the following information included in the procedure manual :								

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2 Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
(i) principle and clinical purpose of the method?	5.5.3	5.5.3 (a) 5.5.3 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(ii) performance specifications/ characteristics?	5.5.3	5.5.3 (c)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(iii) type of specimens appropriate for the method used?	5.5.3	5.5.3(d)						
(iv) patient preparation	N/A	5.5.3 (e)						
(v) type of containers and additives used?	5.5.3	5.5.3 (f)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(vi) preparation of reagents, standards and controls (methods, source of supplies, catalogue numbers)?	5.5.3	5.5.3 (g)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(vii) environmental and safety control?		5.5.3 (h)						
(viii) calibration procedures, if applicable?	5.5.3	5.5.3 (i)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(ix) step by step procedures written clearly?	5.5.3	5.5.3 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(x) methods for calculations and estimation of measurement uncertainty, where relevant?	5.5.3	5.5.3 (m)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(xi) include requirements for quality control and criteria for accepting quality control results?	5.5.3	5.5.3 (k)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(xii) include clear instructions for reporting results, with reference intervals where appropriate?	5.5.3	5.5.3 (n) 5.5.3 (o)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(xiii) reference notes (e.g. special requirements, drug/other interference, potential source of variation etc.)?	5.5.3	5.5.3 (l)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
(xiv) history of authorized changes for each method?	5.5.3	5.5.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(xv) criteria for identifying and dealing with seriously abnormal results?	5.5.3	5.5.3 (q)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(xvi) the appropriate units to be used e.g. SI and/or Conventional?	5.8.3	5.8.3 (i)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
(xvii) source of references for the methods, acceptance criteria, reference intervals, comments or interpretations?	5.5.1	5.5.3 (t)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there documented procedures for handling and examination of highly infectious cases?	4.2.1	4.2.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If a new methodology is used in the laboratory, has it been evaluated and records kept for all tests done, test data, results and conclusions?	5.5.2	5.5.1.2 5.5.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Where applicable, has the biological reference interval used for this new method been validated or established as appropriate?	5.5.2	5.5.1.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the laboratory regularly review the biological reference intervals for their continual suitability and has the source of the biological reference intervals been documented?	5.5.5	5.5.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Assuring the quality of examination procedures / Ensuring quality of examination results	5.6	5.6						

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are there written records of all quality assurance results?	5.6.1		•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there documented evidence of active review by designated person(s) of the following:	5.6.1	5.6.2.1						
a. internal quality control procedures			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
b. results of controls in tests			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
c. instrument function checks			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
d. temperature records			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
e. performance in the proficiency testing programmes?			•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are quality control results verified for acceptability before test results are reported?	5.6.1	5.6.2.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Where quantitative test results are given, has the laboratory made an effort to estimate the uncertainty of measurement and document the uncertainty components? Examples of tests where estimation of MU are expected are provided in relevant Supplementary Criteria.	5.6.2 SC-27 7.2 SC-28 8.4 SC-30 7.1 SC-35 7.1	5.5.1.4 SC-27 7.2 SC-28 8.4 SC-30 7.1 SC-35 7.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are appropriate reference material, microbial reference strains and quality control materials available and used? Are they stored under proper conditions?	5.6.3	5.3.1.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If the reporting of test results involved subjective judgment and professional competency of staff, has arrangement been made for individual staff to participate in external quality assurance programs?	5.6.4	5.6.3.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are there records kept for individual performance in EQAPs?	5.6.4	5.6.3.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the reports of the quality assurance program checked and reviewed by laboratory director or designates?	5.6.4	5.6.3.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Have the EQAP results been circulated to participating staff and those working in the area for information and education?	5.6.4	5.6.3.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If some analyses are done by more than one method or equipment, are there procedures and records to show that the results are comparable? Are there written criteria for acceptance of results?	5.6.6	5.6.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there any documented record for corrective measures in response to problems or deficiencies identified from QC results?	5.6.7	5.6.3.4	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Post-examination procedures / processes	5.7	5.7						
Is there a regular review of the reports to ensure that all required data are present?	5.7.1	5.7.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are results routinely reviewed by authorized personnel with supervisory responsibilities for clerical errors, absurd results, internal consistency, clinical relevance or results requiring special notification before they are released?	5.7.1	5.7.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the results of examinations reviewed by authorized personnel with appropriate qualification, training and experience in the relevant examination?	5.7.1	5.7.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Are there policies and procedure in place to ensure safe packaging, labeling, transportation and disposal of various types of hazardous waste?	5.7.3	5.7.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Reporting of results	5.8	5.8						
When diagnostic reports are generated by computer or telecommunications equipment, the actual signature or initials of the authorized person may not appear on the report. Does the laboratory have a procedure to ensure and document that the responsible person reviewed and approved the complete report before its release?	5.8.3	5.7.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
When computer systems are used, are there procedures to check for transcription, calculation, or data entry errors?	5.8.3	5.8.1	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the test results from referral laboratories properly kept and referral results provided to requester by the referring laboratory?	5.8.6, 4.5.4	4.5.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the reports specified in relevant supplementary criteria to require direct input from qualified pathologist of the appropriate specialty, authorized by the appropriate person?	SC-23 6.1 SC-24 10.1.1 SC-24 10.1.2 SC-25 9.1 SC-26 7.1 SC-27 8.1 SC-28 10.1 SC-30 9.1, 9.2 SC-35 9.2, 9.3	SC-23 6.1 SC-24 10.1.1 SC-24 10.1.2 SC-25 9.1 SC-26 7.1 SC-27 8.1 SC-28 10.1 SC-30 9.1, 9.2 SC-35 9.2, 9.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Do reports include the appropriate age-, sex- specific biological reference intervals, where applicable?	5.8.3 (i)	5.8.3 (j)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is a documented procedure available for expedited handling of seriously abnormal results?	5.8.7	5.9.1 (b)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the turnaround time set within a reasonable time frame and has users' need been taken into consideration?	5.8.11	4.14.7	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are the requesters informed on the reports that the results are auto-validated by computer system?	SC-26 6.3 SC-28 10.3	SC-26 7.3 SC-28 10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Release of results	N/A	5.9						
For computer auto-validated reports, does the laboratory define and document the person(s) authorizing the use of the particular algorithm for the automatic release of the results? Is the authorization for release of auto-validated reports traceable?	SC-26 6.3 SC-28 10.3	5.9.2 (a)	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Laboratory information management	N/A	5.10						
Is/Are the responsible personnel who can approve new information system(s) or changes to information system(s) in the laboratory defined?	N/A	5.10.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Have security roles and responsibilities of employees, contractors and third party users been clearly defined and documented?	N/A	5.10.2	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there documented procedures for collecting, processing, recording, reporting, storing, and retrieving examination data and information?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Note: 1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.

2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.

Technical requirements	Clause (HOKLAS 015, 4th edition and relevant SC)	Clause (HOKLAS 015, 5 th edition and relevant SC)	*1	Y	N	NA	Lab's Document Reference or Remarks ²	Assessment Team's remarks / questions to be asked at the laboratory
Is there any back-up system for information?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the laboratory aware of the sources of information from the relevant authorities concerning information security?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there any protective measure on information assets, including facilities and storage media, against loss, damage, and theft?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Has the laboratory identified secure areas and adopted proper access controls to prevent unauthorized physical access, damage and interference to the laboratory's premises and information?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Has a contingency plan(s) been established to maintain services in the event of failure or downtime in a computerized information system?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Have measures been taken to ensure the integrity (e.g. accuracy, completeness, etc.) of information transmitted (e.g. via computer systems, fax, e-mail, etc.) to and/or from systems external to your laboratory?	N/A	5.10.3	•	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

End of General checklist

- Note:
1. The assessor should concentrate on items marked with a •; other items will be checked by the team leader.
 2. Please put down the laboratory's document reference(s) where there are descriptions or procedures related to the requirement.