

NIAID/DAIDS CRSS Team

PPD

NIAID HIV and Other Infectious Diseases Clinical Research Support Services (CRSS)

Contract No. HHSN272201700078C

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NIAID/DAIDS CRSS Team

PPD

Laboratory Audit Visit of

Harmonized ID (HID)	Laboratory Name - Address

Conducted by PPD

Audit Type: General

Audit Date(s):

Final Report Issued:

NIAID HIV and Other Infectious Diseases Clinical Research Support Services (CRSS) contract team

Table of Contents

Laboratory Report Summary	3
Laboratory Activities.....	4
I. External Quality Assurance (EQA).....	5
II. Organization and Personnel.....	5
III. Testing Facility Operation.....	6
IV. Test Method Validation and Verification.....	8
V. Laboratory Information Systems (LIS).....	9
VI. Laboratory Data Management System (LDMS).....	10
VII. Quality Management	11
VIII. Physical Facilities	11
IX. Equipment.....	12
X. Test and Control	18
XI. Records and Reports	20
XII. Specimen Transport and Management.....	22
XIII. Personnel Safety	23
XIV. Vertical Audit of SOP/Practice.....	25

Laboratory Audit Report

Laboratory Report Summary

Study Site Name/Number/Location	
Visit Date(s)	
Audit Requestor	
Laboratory Auditor	
Principal Investigator	
Laboratory Name	
Laboratory Type	
Laboratory Management	
Quality Assurance Unit Manager	
Safety Officer	
Date(s) Last Audited	
Biosafety Level of Laboratory	
Protocol(s) Supported by DAIDS	
DAIDS Network/Non-Network Affiliation(s)	

Comments:

Laboratory Activities

Hematology	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Flow Cytometry	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Chemistry	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Urine Analysis	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Microbiology	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Virology	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
PBMC Processing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Immunology/Serology	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Specimen Storage	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Specimen Shipping	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Other	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Are reference laboratories used for DAIDS-supported work?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>			
Is there a backup plan for each assay?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Are there semi-annual comparison checks between the primary and backup methods?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>			
Has the test menu changed since the last audit?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	DAIDS Related? <input type="checkbox"/>	Comments <input type="checkbox"/>
Has the Protocol Analyte List been revised since the last audit?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>			

Comments:

Does the laboratory utilize any non-FDA-approved or modified FDA-approved methods? (If "Yes," list the assays.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

I. External Quality Assurance (EQA)

1. Does the laboratory participate in any external proficiency programs for DAIDS-supported protocol-related assays? (If "Yes," list all EQA providers. If "No," list the analytes not covered.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Does the laboratory have a written policy to address the following aspects of EQA: specimen handling and analysis, results review, and troubleshooting for unsatisfactory performance?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Is EQA documentation present and organized (e.g. investigation reports, SMILE review, survey provider result and report, raw result data, attestation page, or other indication of who performed the testing)?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are EQA specimens tested in the same manner as participant specimens?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Is there documented review by laboratory management of all EQA results?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
6. Are EQA specimens rotated among personnel who routinely test participant samples?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

II. Organization and Personnel

A. Is an organizational chart inclusive of all laboratory personnel involved with DAIDS-supported protocol-related activities present?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Is there a policy/process for determining authorized designees? (If "Yes," please describe.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

C. Personnel Records	
1. Are personnel records kept? (If "Yes," describe how these records are organized and securely stored.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is a job description/delegation of duties documentation present for all laboratory personnel involved with protocol-related activities?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. For each laboratory position involved with protocol-related activities, is there a documented profile that lists requirements such as education, experience, and certification/license requirements?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are education records maintained for all laboratory personnel involved with protocol-related activities?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Are assay-specific training records available for all laboratory personnel involved with testing activities?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

6. Have all personnel involved in processing and/or testing of DAIDS-supported protocol specimens completed DAIDS Good Clinical Laboratory Practice training? (If "No," indicate the total number of trained versus untrained personnel.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
7. Is documentation maintained, indicating the laboratory has assessed the competency of each employee to perform his/her assigned duties in accordance to the requirements for waived and non-waived testing? (If "Yes," report the methods utilized to assess competency [including color blindness and/or color vision deficiency testing where applicable] and the frequency of evaluation.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
8. Are personnel identification lists (signature/initial/code) present to verify responsible personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
9. Has the laboratory defined and established a process for auditing personnel records?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

D. Has the laboratory been certified by any regulatory/accrediting agency? (If "Yes," list the agency and date[s] of certification.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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<u>Regulatory/Accrediting Agency</u>	<u>Date(s) of Certification</u>

E. Does the laboratory have a policy that prohibits retaliation against personnel who communicate study integrity, testing quality, and/or safety concerns to laboratory management?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

F. Is there a mechanism for the leadership of the laboratory and the clinic to discuss laboratory performance?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

G. Did the laboratory change location since the last audit visit?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

H. Have any new laboratory employees been hired since the last audit? (If "Yes," document the changes in personnel and management positions.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

III. Testing Facility Operation

A. Is there a list of all DAIDS-supported testing activities performed in the laboratory?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Are turnaround times (TATs) present for all DAIDS-supported assays?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

C. Is a master list of currently used SOPs maintained by the laboratory?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

D. Standard Operating Procedures (List at least one example from each laboratory discipline)		
Written Procedure Name	Review completed by laboratory management within two-year interval?	Laboratory management signature present?
1.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
6.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
7.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
8.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
9.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
10.	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

E. Is there a written document control plan that addresses topics such as procedural relevance, authorization process, reviews, revisions, and discontinuation of procedures?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

F. Are laboratory SOPs reviewed for accuracy and relevance within two-year intervals?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

G. Does the laboratory have a system of documenting that all personnel are knowledgeable of the contents of the laboratory's SOPs?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

H. Are the laboratory SOPs available in the work area?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

I. Are superseded SOP versions identified as retired and archived in the laboratory? (If "Yes," explain the archiving process and provide the retention time.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

IV. Test Method Validation and Verification

A. Has the laboratory verified or established and documented analytic accuracy for <u>each</u> test? (If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Has the laboratory verified or established and documented the analytic precision for <u>each</u> test? (If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

C. Has the laboratory verified or established and documented linearity (including analytic measurement range and clinical reportable range) for <u>each</u> test? (If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

D. Has the laboratory verified or established and documented the analytic sensitivity (lower detection limit) of each non-FDA-approved or modified FDA-approved test? (If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

E. Has the laboratory verified or established and documented analytic interferences for each non-FDA-approved or modified FDA-approved test? (If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

F. Has the laboratory verified or established and documented reference ranges for <u>each</u> test? (If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

G. Has the laboratory verified or established alert/critical values? (If "Yes," explain how results are communicated. If "No," list the missing elements.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

V. Laboratory Information Systems (LIS)

A. Is an LIS utilized in this laboratory? (If "No," skip to Section VI.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. LIS	
1. Are documented validation data present for the LIS?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Can accurate and complete copies be generated by the LIS?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are computer time-stamped audit trails used by the LIS?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Is system access limited to authorized individuals?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Is there a written SOP for the operation of the LIS?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
6. Is there a backup system for the LIS? (If "Yes," describe how data are stored.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
7. Is there a documented procedure that is followed in the event of LIS downtime?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
8. Where applicable, is there ongoing validation of interface systems? (If "Yes," specify frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
9. Are measures in place to ensure secure and confidential storage and transfer of participant data, including (if applicable) written procedures addressing data transfer to external referral laboratories or other service providers?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

10. Are calculated values reported with participant results reviewed every two years or when a system change is made that may affect the calculations?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

VI. Laboratory Data Management System (LDMS)

A. Does this laboratory facility contain an LDMS? (If "Yes", provide the LDMS ID in the Comments Section; If "No," disregard the rest of Section VI and explain how specimen storage/shipping data are maintained.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Reports Verified by the Auditor	
1. Primary Specimens Received Report	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Storage Detail Report	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Shipped Specimen Report–Detail	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

C. Specimen Verification	
1. Can the participant identification (PID), date, protocol, derivative, and additive for specimens be verified with the LDMS?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Does the LDMS accurately reflect the number, type, and volume of all specimen aliquots as well as their storage location and shipping record?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Can the physical presence of specimens be verified with the LDMS Storage Detail Report?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

D. Is the current LDMS manual available in the laboratory?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

E. Backup	
1. Is the LDMS backed up daily?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is the LDMS backup device stored in a different location than the LDMS computer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

F. Is the LDMS connected to a backup power source?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

G. Do laboratory SOPs include implementation and compliance with DAIDS-network mandates regarding LDMS usage?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

VII. Quality Management

1. Does the laboratory have a quality assurance/quality management program? (If "No," skip to Question 3.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Does the program include a documented operational plan to promptly record and investigate, correct (as appropriate), and trend nonconformities or other problems identified in pre-analytic, analytic, post-analytic, and general laboratory systems?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are key indicators of quality monitored and evaluated to detect problems and opportunities for improvement? (If "Yes," list the indicators.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are appropriate corrective actions and/or preventive actions (CAPAs) taken when opportunities for improvement are identified?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Is there evidence that CAPAs are monitored through resolution?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
6. Is quality management documentation surrounding key indicators of quality and CAPAs reviewed by laboratory management? (If "Yes," indicate the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
7. Does the laboratory have an internal auditing program?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

VIII. Physical Facilities

1. Is there a documented policy/procedure in place for access control into the laboratory?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are the ventilation (and humidity, where applicable,) adequately controlled in all areas?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are ambient room temperature readings (and humidity, where applicable) taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Have tolerance limits been established and documented for ambient room temperature (and humidity, where applicable)? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

6. Is there adequate, conveniently located space so the quality of work and safety of personnel are not compromised?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
7. Is there adequate space for records and specimen storage?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

IX. Equipment

A. Is all equipment used for DAIDS protocol-related laboratory activities listed on an inventory document?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Is all out-of-service/not-in-use equipment clearly identified as such?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

C. Are there documented Preventive Maintenance (PM) and calibration plans for laboratory equipment indicated?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

D. Has any DAIDS-related equipment been replaced, added, or removed since the last audit? (If "Yes," list the equipment.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

E. Laboratory Equipment

Verify the following as it applies to equipment used for study-specific laboratory activities: (List the manufacturer and model of the equipment, where applicable.)

1. Are freezers present? (If "No," skip to Question 2.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are temperature readings taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
d. Have tolerance limits been established and documented for temperature readings? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

2. Are refrigerators present? (If "No," skip to Question 3.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are temperature readings taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
d. Have tolerance limits been established and documented for temperature readings? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

3. Are liquid nitrogen freezers present? (If "No," skip to Question 5.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are liquid nitrogen levels taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
d. Have tolerance limits been established and documented for liquid nitrogen levels? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

4. Is oxygen monitoring equipment present in areas where liquid nitrogen is used? (If "No," skip to Question 5.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are oxygen levels taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
d. Have tolerance limits been established and documented for oxygen levels? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

5. Are incubators present? (If "No," skip to Question 6.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are temperature readings, CO ₂ , and humidity levels (if applicable) taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
d. Have tolerance limits been established and documented for temperature readings, CO ₂ , and humidity levels, where applicable? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

6. Are water baths present? (If "No," skip to Question 7.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are temperature readings taken and documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
d. Have tolerance limits been established and documented for temperature readings? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Is there documentation of corrective actions taken in response to out-of-range values?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

7. Are centrifuges present? (If "No," skip to Question 8.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Is calibration of speed, time, and temperature (if applicable) performed and documented for each centrifuge? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

8. Are biosafety cabinets/hoods present? (If "No," skip to Question 9.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Has each cabinet/hood been certified? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

d. Are pressure readings or air flow rate readings documented? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
e. Have tolerance limits been established and documented for pressure or air flow rate readings? (If "Yes," list the limits.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

9. Are autoclaves present? (If "No," skip to Question 10.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are checks to verify effective autoclave sterilization, including use of heat-sensitive tape and biological indicators, performed and documented? (If yes, indicate the frequency).	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

10. Is chemistry instrumentation present? (If "No," skip to Question 11.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

11. Is hematology instrumentation present? (If "No," skip to Question 12.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

12. Is immunology/serology testing equipment present? (If "No," skip to Question 13.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

13. Is flow cytometry instrumentation present? (If "No," skip to Question 14.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

14. Is PCR/molecular testing equipment present? (If "No," skip to Question 15.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are PM activities/services performed and documented by laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are PM activities/services performed and documented by outside vendors and/or company technical representatives?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
c. Are calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

15. Are pipettors present? (If "No," skip to Question 16.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are calibration/verification procedures performed for all pipettors? (If "Yes," report the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

16. Are thermometers present? (If "No," skip to Question 17.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Is a known standard thermometric device available (e.g., NIST certified)?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Have all non-certified thermometers been tested against a standard device? (If "Yes", describe the procedure performed.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

17. Are scales and/or balances present? (If "No," skip to Question 18.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are accuracy checks performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Are service and calibration procedures performed as described by the manufacturer?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

18. Are microscopes present? (If "No," skip to Question 19.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are daily and annual PM activities/services performed and documented?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

19. Are timers present? (If "No," skip to Question 20.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Are calibration procedures performed and documented?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

20. Is additional equipment used for protocol-related assays present? (If "Yes," report on PM and calibration activities where applicable.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

F. Temperature Monitoring

1. Is there a written policy/procedure in place, explaining how temperatures are monitored during the absence of laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is a computerized alarm system with setpoint temperature ranges utilized for continuous monitoring of temperature-sensitive equipment and ambient room temperature? (If "Yes," report the frequency of alarm testing; if "No," specify the system used for continuous temperature monitoring.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

G. Is there an SOP in place that describes backup power resources? (If "Yes," specify how backup power equipment is maintained e.g., logs or SOPs that detail the frequency of maintenance).	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

H. Are maintenance, repair, and calibration records reviewed and signed monthly by laboratory management?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

IX. Test and Control

A. Qualitative/Quantitative Tests		
Name of Assay	QC Levels/Replicates	QC Frequency
1. Is there a written Quality Control (QC) program that clearly defines procedures for monitoring analytic performance, including establishment of tolerance limits, number and frequency of control tests, corrective action based on QC data, and related information?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
2. Are records present documenting control results assayed with each test as described in the specific assay procedure? (If no QC records are present, skip to Question 5.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
3. Does the technologist performing the QC initial the records?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
4. Has laboratory management reviewed and signed all QC records? (If "Yes," note the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
5. Are appropriate charts utilized to document QC data (e.g., Levey-Jennings charts)? (If "No," skip to Question 7.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
6. Has laboratory management reviewed and signed the charts? (If "Yes," note the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
7. Are QC records available for the past 2 years and retrievable within 24 hours?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
8. For quantitative assays, are control materials at more than one level used?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
9. For qualitative assays, is a positive and negative control tested?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	

Comments:

B. QC Failure/Corrective Action		
1. Is there documentation of corrective actions taken in response to QC failures? (If "No," skip to Section C.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
2. Has laboratory management reviewed and signed the records for QC failures? (If "Yes," note the frequency.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	
3. In the event that QC data is determined to be unacceptable due to systematic error, does the laboratory re-evaluate all study-participant test results since the last acceptable run?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	

Comments:

C. QC Materials		
1. Are QC materials dated within the manufacturer's assigned expiration dates?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>	

2.	Are QC materials properly stored as required by the manufacturer?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
3.	Is adequate labelling information of QC materials available, that indicates traceability to the identity, lot number, storage requirements, preparer as well as preparation/reconstitution, and expiration dates?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

D. Calibration Materials				
1.	Are calibration materials utilized by the laboratory? (If "No," skip to Section E.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
2.	Are all calibration materials dated within the manufacturer's assigned expiration dates?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
3.	Are all calibration materials properly stored as required by the manufacturer?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
4.	Is adequate labelling information of calibration materials available, that indicates traceability to the identity, lot number, storage requirements, preparer as well as preparation/reconstitution, and expiration dates?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

E. Reagents/Testing Kits/Solutions				
1.	Are all reagents/testing kits/solutions dated within the manufacturer's assigned expiration dates?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
2.	Are all reagents/testing kits/solutions properly stored as required by the manufacturer?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
3.	Is adequate labelling information of reagents/testing kits/solutions available, that indicates traceability to the identity, lot number, storage requirements, preparer as well as preparation/reconstitution, and expiration dates?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

F. Water Quality				
1.	Does the laboratory require specific water types for certain testing procedures? (If "Yes," describe. If "No," skip to Section G.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
2.	Is there a documented policy that defines standards and frequency of water testing? (If "Yes," include the testing frequency.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
3.	Are Certificates of Analysis maintained for commercially bottled purified water?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

G. Parallel Testing	
1. Does the laboratory perform testing to compare new lots to old lots for reagents and/or controls?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Does laboratory management sign validity checks for each comparison test?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

H. Culture Media (Bacteriology/Mycology/Cellular)	
1. Is culture media utilized by the laboratory? (If "No," skip to Section I.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is the media prepared in-house or purchased commercially?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Is a media QC log present? (If "Yes," comment if corrective actions are present, if applicable. If "No," skip to Question 5.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are logs reviewed and signed by laboratory management monthly?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Is media dated with the assigned expiration dates?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

I. Staining Procedures	
1. Are staining procedures performed by the laboratory? (If "No," skip to Section J.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is a control slide stained weekly with documented observations initialed by a technologist?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Is a Corrective Action Log present for staining QC?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are logs reviewed and signed by laboratory management monthly?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

J. Is there an established, documented inventory control system in operation for laboratory reagents and supplies?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

XI. Records and Reports

A. Are copies of network laboratory-specific manuals, protocols, and appendices available and retrievable within 24 hours?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Specimen Tracking Forms/Requisitions		
1. Are forms readily available and retrievable within 24 hours?	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are the forms retrievable for the entire protocol? (If "Yes," explain how archiving is accomplished and provide the retention time[s].)	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
C. Is specimen chain of custody adequately documented?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
D. Where appropriate, are analyte results reported with accompanying reference intervals and/or alert/critical values?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
E. Do the laboratory reports identify the laboratory performing the testing?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
F. Is there a written policy/procedure that addresses the revision of laboratory reports?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
G. Is a log or other appropriate record of result modifications reviewed at least monthly by laboratory management?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
H. Does the laboratory archive result data (result printouts, electronic records, etc.), QC records, package inserts, and Certificates of Analysis? (If "Yes," explain how archiving is accomplished and the duration for which data are archived. If "No," skip to Question K.)		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
I. Are the archived records accessible only to authorized personnel?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		
J. Are records protected from flood and fire?		
	Yes <input type="checkbox"/>	No <input type="checkbox"/> Comments <input type="checkbox"/>
Comments:		

K. Are there established qualifications for personnel assigned to releasing testing results? (If "Yes," verify the qualifications for at least one personnel releasing results in each laboratory area.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

XII. Specimen Transport and Management

A. Are there documented guidelines for specimen collection in the laboratory and areas dedicated for specimen collection?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

B. Is there a documented policy/procedure for identifying and assessing the quality of specimens received in the laboratory?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

C. Are specimen rejection criteria established? (If "Yes," describe how the specimen rejection is communicated to the clinic personnel.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

D. Specimen Transport	
1. Is there a documented policy/procedure in place for transporting samples (e.g., transported in a sturdy, non-breakable, closable container labeled with the international symbol for biohazard)?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is there a documented policy/procedure available addressing transportation within the facility?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Is there a documented policy/procedure available addressing transportation between off-site clinics and the laboratory?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

E. Are wet specimens (blood, urine, body fluids, etc.) retained for potential re-evaluation? (If "Yes," provide the retention times for all specimens.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

F. Shipping/IATA Certification/Training	
1. Is there a training plan in place for shipping certification?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is there documentation of persons trained for shipping?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

3. Are shipping certifications renewed every 2 years?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Is there a policy in place for shipping samples internationally?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

XIII. Personnel Safety

A. Safety-Related Incidents

1. Are there procedures available for documenting or reporting safety incidents?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is there documentation of all safety-related incidents? (If "No," skip to Question 4.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Is the documentation reviewed and signed monthly by laboratory management?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Is there a mechanism to evaluate safety incidents?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Is prophylaxis treatment available (e.g., hepatitis B vaccinations and post-pathogen exposure options)?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
6. Does a physician provide a documented review of all exposure events?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

B. Safety Data Sheets (SDS) or Material Safety Data Sheets (MSDS)

1. Are SDS or MSDS on file or available online? (If "No," skip to Section C.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are SDS or MSDS readily available to all laboratory personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

C. Is there an initial and ongoing safety training program with documented participation of all laboratory personnel? (If "Yes," briefly describe the training and list the provider as well as the frequency of training.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

D. Safety Policies

1. Is a written Standard Precautions Policy available?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is a written Chemical Hygiene/Hazardous Materials Plan available?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

3.	Is there a written policy for the handling and disposal of biohazardous materials and regulated medical waste? (If "Yes," list what mechanism is used for disposing biohazardous waste.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
4.	Are policies, procedures, and practices in place for use of liquid nitrogen?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
5.	Are policies, procedures, and practices in place for use of dry ice (solid carbon dioxide)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
6.	Is an emergency preparedness policy available?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
7.	Are safety policies and procedures readily available to all personnel?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
8.	Is there evidence of review within a two-year interval of all safety policies and procedures by laboratory management?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

E.	Is safety equipment such as eyewashes, safety showers, fire extinguishers, sharps containers, spill kits, smoke detectors/fire alarms, hand washing sinks, and basic first aid kits present in the laboratory? (If "Yes," provide the frequency of documented functional checks for the equipment.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
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Comments:

F. Personal Protective Equipment (PPE)				
1.	Is PPE (gloves, gowns, masks/respirators, eye protectors, etc.) available to laboratory personnel?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
2.	Is PPE correctly worn and utilized by laboratory personnel?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
3.	Is PPE maintained in a sanitary and reliable condition in all technical work areas in which blood and body substances are handled and in circumstances during which exposure is likely to occur?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

G. Emergency Evacuation				
1.	Does the laboratory have a documented and workable evacuation plan that is available to all laboratory employees and visitors?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
2.	Have all laboratory employees (and visitors, if appropriate) been properly trained in the evacuation plan/policy?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>
3.	Are annual fire drills conducted with documented participation by laboratory personnel?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments <input type="checkbox"/>

Comments:

H. Are reviews of safe work practices performed and documented at least annually?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
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Comments:

XIV. Vertical Audit of SOP/Practice

<u>Title of SOP</u>	<u>Procedure Observed</u>	<u>Person Observed</u>
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A. Personnel Training and Competency Verification

1. Is training and competency evaluation documented for the personnel performing the test?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is SOP user knowledge documented?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

B. Pre-Test Specimen Handling

1. Are specimens submitted for testing as required by the SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are specimens maintained at appropriate conditions (e.g., temperature) until testing can be performed?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are all pre-testing specimen handling procedures performed per SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

C. Reagent Preparation and Storage

1. Are reagents prepared in accordance with the SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are reagents maintained at appropriate conditions until testing can be performed?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

D. Test Set-Up

1. Are tubes/plates pre-labeled prior to testing? (If "Yes," comment on how far in advance labeling occurs.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are tubes/plates labeled appropriately with sufficient identification to prevent mix-up?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Is appropriate equipment (e.g., pipettors or a vortex mixer) available at the start of the procedure to avoid delay?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

E. Processing Phase	
1. Are appropriate conditions maintained to perform the assay (e.g., sterile, biohazard containment)?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are reagents and samples added in the appropriate order and at appropriate times?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are incubation times required? (If "No," skip to Question 4.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Is incubation performed appropriately?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
b. Is incubation time documented?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are additional steps followed as defined in the SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Are samples maintained under appropriate conditions until analysis?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

F. Analysis Phase	
1. Is an analyzer required for this phase? (If "Yes," indicate the analyzer. If "No," skip to Question 2.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
a. Is the analyzer set up as required by the SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Are specimens analyzed by manual methods? (If "Yes," indicate the method. If "No," skip to Question 3.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are control and, where applicable, calibration results acceptable?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Are specimens analyzed as defined in the SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments:

G. Calculations and Results Reporting	
1. Are manual calculations performed? (If "No," skip to Question 3.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
2. Is the derivation of the final results available?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
3. Are results transmitted from the analyzer to a central LIS? (If "No," skip to Question 5.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
4. Do the results obtained by the analyzer match those in the LIS?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
5. Are results verified by alternate personnel?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
6. Are discrepancies or deviations recorded and reviewed?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>
7. Are results reported as defined in the SOP?	Yes <input type="checkbox"/> No <input type="checkbox"/> Comments <input type="checkbox"/>

Comments: