# **AAB - MLE Proficiency Testing Service**Proficiency Test Corrective Action Form

LABORATORY NAME: Section:					
Completed by:					
Core lab Manager / Departmen	nt Supervisor:				
Problem:					
Corrective Action/Preventive	Action:				
Reviewed by:				Date:	
Laboratory Manager					
	FICIENCY TEST CORF				
Laboratory Name:			CI	LIA #:	
Testing Event: Proficiency Testing Module:			Ye An	ar:alyte:	
Date PT Sample Rcvd/_/	Test Date:/_	<u>/</u>	Report Date://_	<u> </u>	
Sample #:Expected Results:	Reported Results: Repeat Analysis Result _		Expected Range: (Original or new spec		
Sample #: Expected Results:	Reported Results: Repeat Analysis Result _		Expected Range: (Original or new spec	cimen)	
Sample #:Expected Results:	Reported Results: Repeat Analysis Result _		Expected Range:(Original or new spec		
Sample #: Expected Results:	Reported Results: Repeat Analysis Result _		Expected Range: (Original or new spec	cimen)	
Sample #: Expected Results:	Reported Results: Repeat Analysis Result _		Expected Range: (Original or new spec	cimen)	
I. Does this failure represent unsa	atisfactory performance for t	this analyte, specia	Ity, or subspecialty?	Y/N	
Does this failure represent <u>unst</u> (Unsatisfactory performance for	or two events in a row or two	out of three conse	ecutive testing events)		
PT Failure Classification:	Submitted Late Clerical Error Trend / Bias	Lack of Consens Equipment Error Other			
FINDINGS:		- Curici			
CORRECTIVE ACTION:				_	
COULD THIS ERROR AFFECT P		Y/N			
[Review process to be modified by	/ each lab to what is approp	riate for that lab]			
Investigated by:				Date:// Date://	
Laboratory Director:				Doto: / /	

### **AAB - MLE Proficiency Testing Service**

### **INVESTIGATION CHECKLIST**

This form is to be used as a guide to assist in investigating, documenting, and correcting proficiency test failure or unacceptable results. Identify the reasons for failure or unacceptable results in proficiency testing and take appropriate corrective measures. Complete Proficiency Testing Corrective Action Form and attach copies of all records reviewed to this form.

1)	SPECIMEN HANDLING  a) Were proficiency test specimens checked for acceptability when received? (Review notes made at the time proficiency was received).  Y / N / N		
	b) Were the specimens handled properly? (Review instruction for specimen preparati		
2)	<ul> <li>a) Verify correct value was transcribed from instrument printout to report form, or that list of results.</li> </ul>	Y / N / NA	
	<ul> <li>b) Verify that decimal point and units of measure were honored on the report form.</li> <li>c) Verify that the correct code from the instrument or reagent list was entered on the Verify that the correct testing method information was provided.</li> </ul>	Y / N / NA	
	<ul> <li>e) Verify that any calculations were performed correctly. (even if automated calculation)</li> <li>f) Check summary report to verify value on report form was honored by the PT services.</li> </ul>		
3)	a) Were quality control materials within the acceptable range on the date of PT testing	g? Y / N / NA	
	<ul><li>(Verify the quality control acceptable range in use.)</li><li>b) Any evidence of trends or shifts in the periods just before and just after PT was tes</li></ul>		
4)	<ul><li>a) What was the date of the last calibration?</li><li>b) How often is calibration to be performed?</li></ul>		
	c) When was last calibration verification performed?// d) Were any calibration problems noted?	Y/N/NA	
5)	a) Were instrument parameters entered correctly?	Y/N/NA	
	<ul><li>b) Was daily maintenance performed on the date of PT testing?</li><li>c) Was special maintenance performed just prior to PT?</li><li>d) Were instrument problems noted when PT was performed?</li></ul>	Y / N / NA Y / N / NA Y / N / NA	
6)	8) REAGENTS a) Check reagent / instrument log for notation of recent problems.	Y / N / NA	
	<ul> <li>check reagent / instructions for notation of recent problems.</li> <li>check reconstitution instructions in package insert versus procedure -any changes</li> <li>c) Verify that open stability of reagent was not exceeded by reviewing procedure with</li> </ul>	s? Y / N / NA testing personnel.	
7)		Y / N / NA	
	<ul> <li>a) Date of last competency assessment for testing personnel/_/_</li> <li>b) Review assay procedure and proficiency test sample preparation instructions with were followed.</li> </ul>	testing personnel to ensure that instructions Y / N / NA	
	c) Review with testing personnel how samples were loaded to rule out misidentification		
	d) Was retraining of testing personnel required and if so is this completed?	Y / N / NA	
8)	a) Review procedure versus manufacturer's most current recommendation for any ch		
		Y / N / NA Y / N / NA Y / N / NA	
9)		17117117	
٥)	<ul><li>a) Was PT challenge beyond the scope and extent of the testing routinely performed</li><li>b) Has summary report been reviewed for an explanation of key features of the element</li></ul>		
	<ul> <li>and/or pictures?</li> <li>c) Have textbook references been consulted for additional information?</li> <li>d) (Microbiology) Compare the test characteristics found in your laboratory with the cl</li> </ul>	Y / N / NA Y / N / NA haracteristics of the	
	correct identification. Review your results and procedure for the key to distinguish the from the incorrect identification.		

## **AAB-MLE Proficiency Testing Service Evaluating Your Proficiency Testing Results**

### **Suggested Process**

The role of proficiency testing (PT) has traditionally been one of an external quality assurance check. However, since successful PT performance has become an assessment tool for determining regulatory compliance, effectively evaluating your PT results is imperative.

This sheet suggests a process to follow when evaluating your PT results. Feel free to incorporate this outline into your policy/procedure manual and use it to evaluate previous PT reports or when you get your next set of PT results. If you aren't already preserving your PT specimens, then consider retaining them for use in this evaluation process.

#### A Beneficial Process for Evaluating Your PT Results

Once you receive your PT results, review the CMS summary page to determine if all regulated analytes were scored for CLIA (regulatory) purposes. If you performed PT on a regulated analyte and this analyte does not appear on the summary page contact AAB-MLE.

Check to be sure the CLIA number for the lab is included and/or correct on the report, along with the name and identifier of any other regulatory or accrediting body (I.e., CMS/State/COLA) that should receive copies of your PT report. If the CLIA number and/or regulatory information are lacking or incorrect, your regulatory or accrediting agency will have problems receiving and monitoring your PT enrollment and scores. Notify AAB-MLE of any corrections to this information.

Review your scores for the individual analytes and review the overall specialty scores. The criterion for satisfactory performance is a minimum score of 80% for all analytes (except a minimum score of 100% for ABO/Rh and compatibility testing). For analytes in the same specialty, the scores are averaged to obtain the overall specialty score.

"Unsatisfactory" PT performance occurs when there is a failure in one event. PT performance is "unsuccessful" if there are two consecutive PT event failures or two out of three PT event failures. If repeated analyte / specialty scores indicate unsuccessful PT performance, then the lab is at risk of losing its ability to continue to test the analyte and/or specialty. After completing this initial review, continue with the more extensive review that follows:

- I. All results were passing; you should:
  - A. Review the report.
    - 1. Are three of five results for an analyte outside +/-1.5 Standard Deviations, if this information is provided?
    - 2. Are three results for an analyte outside +/-50% of mean?
    - 3. Do the five results for the analyte range from -50 to +50% of mean?
    - 4. Did any analytes receive an automatic 100% because they could not be graded?
  - B. If conditions 1, 2, or 3 exist, then take corrective action since it identifies gradual long term trends and indicates test instability.
  - C. If condition 4 exists, perform a self-evaluation, since the score does not reflect actual laboratory performance.
  - D. If none of these conditions exist, document this review.

[Stop review here.]

- II. If PT results for any analytes are unsatisfactory:
  - A. Check your original documentation for discrepancies. Look for:
    - 1. Clerical errors (transcription, transposition, method coding).
    - 2. PT program errors.
  - B. Check testing records for technical processing errors. Look for:
    - 1. Misidentification of specimen.
    - 2. Misinterpretation of results.
    - 3. Results mistakenly reported outside the reportable range or when QC was out of range.
  - C. If any of the above appear to be the reason for the PT problems:
- 1. Document the causes and the corrective action taken to prevent them from happening in the future. [Stop review here.]
- III. If the reason for the problems is still not apparent, then evaluate the test systems affected.
  - A. Expand the scope of the inquiry by asking:
    - 1. Is the problem affecting more than one test on an instrument?
      - a. If yes, expect an instrument-related problem.
    - 2. Is the problem affecting only tests results in a certain range, e.g., only specimens with high values are affected?
      - a. If yes, this could be due to a linearity/calibration problem.

### **AAB-MLE Proficiency Testing Service**

- 3. Are several tests affected from the same PT specimen?
  - a. If yes, it could be a problem of PT specimen integrity or reconstitution.
- B. Evaluate status of the affected tests at the time of initial testing and determine:
  - 1. Has maintenance been performed appropriately?
  - 2. Are controls in range, or starting to trend or shift?
  - 3. When was the last calibration?
  - 4. Is temperature a factor?
  - 5. Are all reagents or controls in date?
- C. Retest PT specimens retained specifically for this purpose. Serum specimens may be frozen; however, hematology specimens have limited stability and must be refrigerated (they cannot be frozen). If the results in question are now in range and:
  - 1. One test or specimen was affected, it is termed "random analytical error" that may have been due to:
    - a. Aliquot evaporation.
    - b. Pipetting error/dilution error
    - c. Instrument instability/power surge.
  - 2. Two or more poor results for the same test were biased in the same direction, it is referred to as short-term systematic analytical error" that may have been due to:
    - a. Improper instrument maintenance.
    - b. Reagent deterioration.
    - c. Improper calibration.
  - 3. If all of the PT problems were explained by the above, then check for possible effects on patient results since the PT specimens were done. If the effect could have been clinically significant, then document appropriate corrective action. Take steps to prevent the problems from recurring.

[Stop review here.]

- IV. If the results of the retest are NOT in range, obtain a new sample of the PT material in question from your PT program and test it Availability of these specimens varies greatly. If they aren't available, then consider performing split specimen testing on several patient specimens instead.
  - A If the new specimens are in range, then the problem could have been due to:
    - 1. Problems with the PT material specimen itself, such as:
      - a. Bacterial/fungal contamination.
      - b. Delay or temperature damage in shipment.
      - c. Hemolysis of specimen.
      - d. Evaporation of the specimen.
      - e. Reconstitution error or delay in testing.
- B. Document the cause of the errors and the corrective action taken to prevent future problems. [Stop review here.]
- V. If the results of these newly obtained specimens are out of range as well, then it's most likely due to a long-term systematic error.
  - A. Examples of some of these problems and their solutions are:
    - 1. Miscalibration recalibrate the instrument.
    - 2. Repetitive procedural error reread procedure / retrain staff.
    - 3. Infrequent performance of the test retrain staff or consider discontinuing the test.
    - 4. Major instrument maintenance problem ·· call for service.
    - 5. Matrix effect /incompatibility with your method call AAB-MLE.
  - B. If the problems are corrected by any of the above reasons, then check the effect of the problem on patient results since the PT was originally performed. If the effect was clinically significant, then take appropriate corrective action. Document the corrective action taken to prevent them from happening again.
- VI. Perform a scheduled QA follow-up review of the effectiveness of all corrective actions taken to prevent future PT problems. Document this review.

[Stop review here.]

Proficiency Testing is a well-justified laboratory expense. Taking the time to evaluate the results according to the above outline will aid in your efforts to attain successful proficiency testing results, as well as produce quality laboratory test results.

KEEP ALL DOCUMENTATION FOR FUTURE REFERENCE. DO NOT SUBMIT CORRECTIVE ACTION TO AAB-MLE.