Checklist for ASVCP Quality Assurance Guideline Section 4, Analytical factors Important in Veterinary Clinical Pathology (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
4.2.1 Laboratory water quality electrical power		
stability, and temperature (to include	□ Yes □ No	
refrigerator/freezer)/humidity conditions are		
monitored on a regular schedule.		
4.2.1 Automated balances, pipettes,		
microscopes, and centrifuges are	□ Yes □ No	
cleaned/calibrated annually.		
4.2.1 An Instrument Performance Log is created		
and maintained for each instrument, recording	□ Yes □ No	
routine and special maintenance/repairs and any		
other corrective actions taken.		
4.2.2 The laboratory participates in an external	□ Yes □ No	
quality assessment/proficiency testing program,		
with results distributed and discussed among		
laboratory personnel. Inquiry/internal audit is		
performed if there is an unacceptable deviation		
from the peer group mean.		
4.3/4.3.9 Appropriate method validation or	□ Yes □ No	
method verification/transfer studies are		
performed prior to adopting a new test procedure		
and/or bringing a new instrument on-line; the		
choice between full validation and verification		
matches the specific laboratory situation.		

□ Yes □ No	
□ N/A	
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□ Yes □ No	
□ N/A	
☐ Yes ☐ No	
□ N/A	
□ Yes □ No	
□ N/A	
□ Yes □ No	
□ N/A	
□ Yes □ No	
⊔ N/A	
□ Yes □ No	
⊔ IN/A	
□ Yes □ No	
□ N/A	
□ Yes □ No	
	N/A

performed at least every six months and more		
frequently if indicated.		
4.6 Laboratory personnel have thorough working		
knowledge of instruments and their		
use/maintenance and can perform basic		
troubleshooting/can take appropriate steps with	□ Yes □ No	
various error messages/flags (see also section 2		
for more information on personnel		
knowledge/training).		
4.7, Appendix 1 A routine quality control (QC)		
plan is in place (see also following detailed items)		
to monitor method/instrument performance, with	□ Yes □ No	
rules and policies established for analysis of QC		
measurement tools (e.g. Levey-Jennings plots).		
4.7.2 There is proper storage and handling of	□ Yes □ No	
QC reagents and calibrators.		
4.7.1 Purchased quality control materials should	□ Yes □ No	
have low, normal, and high levels that are	□ N/A	
medically relevant for veterinary species.	□ IN/A	
4.7.1, 4.7.3, 4.7.4, Appendix 1, Figures 2 and 3,		
Table 4 Statistical QC rules, number of control		
levels analyzed, and QC frequency are chosen to		
ensure a high probability of error detection		
(recommended Ped ≥ 90%), a low probability of	□ Yes □ No	
false rejection (recommended Pfr ≤5%), and	□ N/A	
hence a low risk of reporting unreliable final	□ IN/A	
patient results (i.e. results are within quality goals		
as may be defined by allowable total error/TEa,		
clinical decision limits, and/or expected biologic		
variation).		
4.7.1, 4.7.4, Appendices 1 and 2, Tables 2 and 4	□ Yes □ No	
Sigma metrics are calculated for each test from	□ N/A	
TEa, bias, and coefficient of variation (CV) data,	□ I N / <i>F</i> A	

in order to aid determination of which tests		
require more stringent statistical and non-		
statistical QC.		
4.7.1, 4.7.4, Appendix 1, Figure 3, Table 4 The		
potential need for multi-level control rules for	□ Yes □ No	
individual measurands (with lower sigma), as well		
as the potential need for multistage QC during a	□ N/A	
run are assessed.		
4.7.1, 4.7.4, Appendix 1, Table 2, Figure 2 Non-		
statistical QC items are employed as applicable	□ Yes □ No	
for lower throughput labs and/or for any		
measurands with low sigma performance.		
4.2.1 Accumulated QC data is systematically		
reviewed on a determined regular schedule (e.g.		
Levey Jennings plot analysis), and appropriate		
corrective actions are taken when there are	□ Yes □ No	
undesirable trends/results outside of control rule	□ res □ no	
parameters. Patient samples are not run/reported		
until quality control materials are assayed as		
back "in control".		