Beaumont HEALTH

Beaumont Laboratory	Effective Date: 02/28/2019
Clinical Pathology	Supersedes:
Royal Oak	

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Architect Chemistry Carry Over Worksheet

RC.CH.CSL.ARC.WK.001.r00

Principle

Carryover is defined as the percent of a leading sample that is transferred into the sample following it. It is also referred to as % Interaction and can be quantified by testing a low concentration sample (1), followed by a high concentration sample, followed by the same low concentration sample (2). Using this approach, it is calculated according to the following formula.

$$\% \text{ Interaction} = \frac{[\text{Low Result (2)} - \text{Low Result (1)}]}{\text{High Result}} \times 100$$

Acceptable values may vary according to the imprecision of the method and range of possible values for the analyte and should be judged by a clinical chemist or pathologist. It may also be evaluated by testing a blank sample after a positive sample such as a standard. Using this approach, it is calculated as follows:

$$\% \text{ Interaction} = \frac{\text{Blank Result}}{\text{Standard Result}} \times 100$$

Analyzers which pipet or aspirate sample should be checked for carryover before being put into service, unless they use disposable tips. If the instrument has more than one sample probe, each should be checked. This check should be repeated annually and after repair or replacement of the primary sample probe or probe wash system."

Procedure
After Sample Probe Replacement, Probe Wash System Repair or Replacement

Date and Time:		Instrument:	
Use patient sample with CK <50 for low sample and frozen pooled serum for carryover studies for high sample.			
Low Result (1)	CK =		
High Result	CK =	using the formula above	
Low Result (2)	CK =	% Interaction =	
Send to clinical chemist for review			

Carryover study performed by: _____ Date: _____

Carryover study approved by: _____Date: _____

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References
  Protocol for New Test Introduction policy (RC.CH.LOP.QCQA.PY.004)

Authorized Reviewers
  Section Medical or Technical Director

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Document Control
    Location of Master: Master electronic file stored on the Beaumont Laboratory server under
    S:/AutoChem/DocCont/CSL/ARC
    Master printed document stored in the Abbott Architect Chemistry Procedure Manual in Core Lab
    Number of Controlled Copies posted for educational purposes: 0
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Document History

Signature	Date	Revision #		Related Documents Reviewed/ Updated
Prepared by: Robin Carey-Ballough MT(ASCP)	2-28-2019	r00		
Approved by: Kenneth Simkowski, PhD	3-19-2019			
Reviewed by: (Signature)	**Date**	**Revision #**	**Modification**	**Related Documents Reviewed/ Updated**
Peter Millward, MD	3-21-2019			

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