

Beaker LIS Validation Test Script Template

QA / BAT | CP + AP | TechFitFlow.com

Test Cycle:	<input type="checkbox"/> Unit <input type="checkbox"/> Integrated <input type="checkbox"/> Dress Rehearsal	Module:	<input type="checkbox"/> Beaker CP <input type="checkbox"/> Beaker AP <input type="checkbox"/> Both
Tester Name:	_____	Date:	_____
Environment:	_____	Build Version:	_____

CP - TEST COMPENDIUM AND ORDER ROUTING

ID	Test Description / Steps	Expected Result	Status	Notes / Defect Ref
CP-001	Place CMP order via CPOE as attending physician. Confirm order routes to chemistry lab queue in Beaker.	Order appears in Beaker CP chemistry queue within 60 seconds. Status = Pending Collection. CPT 80053 attached.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
CP-002	Place order for non-formulary/restricted test as ordering provider without required privileges.	Order blocked. Restrictor message displays explaining restriction. Provider prompted to contact lab or alternate order.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
CP-003	Place CBC order. Result posted by instrument via middleware. Confirm all differential components populate.	All CBC components visible in result view. Differential values present. Reference ranges display. Abnormal flags shown.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
CP-004	Submit send-out test order. Confirm order routes to external reference lab and result returns to patient record.	Order queued for send-out. External lab requisition generated. Result returns and posts to patient chart on receipt.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

CP - AUTO-VERIFICATION AND CRITICAL VALUES

ID	Test Description / Steps	Expected Result	Status	Notes / Defect Ref
CP-005	Post a potassium result of 3.8 mEq/L (normal range) via instrument interface. Confirm auto-verification fires.	Result auto-releases without technologist review. Result visible in patient chart. No critical alert triggered.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
CP-006	Post a potassium result of 6.2 mEq/L (critical high) via instrument interface. Confirm auto-verification holds.	Result held for review. Critical value alert fires to responsible provider. Notification documented with timestamp.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
CP-007	Post a potassium result that triggers delta check rule (>1.5 mEq/L change from prior result).	Auto-verification holds result. Delta check flag displayed. Technologist review task generated.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
CP-008	Simulate provider non-acknowledgment of critical value notification past defined time window.	Escalation fires to covering provider or nursing charge. Escalation documented in audit trail.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

CP-009	Validate that a hemoglobin of 6.0 g/dL (critical low) triggers correct notification routing for ICU patient.	Critical value alert routes to ICU provider in-basket. Telephone callback task generated. Notification timestamped.	[] Pass [] Fail [] N/A	
---------------	--	---	------------------------------	--

CP - INSTRUMENT INTERFACE AND MIDDLEWARE

ID	Test Description / Steps	Expected Result	Status	Notes / Defect Ref
CP-010	Send HL7 OBX result message from chemistry analyzer through middleware to Beaker. Confirm all fields map correctly.	Result component, value, unit, reference range, and abnormal flag all populate correctly in Beaker result view.	[] Pass [] Fail [] N/A	
CP-011	Disconnect middleware from analyzer. Confirm alert fires and manual entry fallback procedure activates.	Interface error alert visible to lab staff. Manual result entry queue available. Downtime procedure documented.	[] Pass [] Fail [] N/A	
CP-012	Post blood culture positivity result (organism detected). Confirm result routes to microbiology queue and provider notification.	Positive blood culture displays in microbiology result view. Infectious disease provider notified. Result timestamped.	[] Pass [] Fail [] N/A	
CP-013	Submit POC iStat result with operator ID and patient wristband scan. Confirm result posts to correct patient chart.	Result posts to correct patient. Operator ID logged. Result visible in clinical flowsheet within expected latency.	[] Pass [] Fail [] N/A	

AP - ANATOMIC PATHOLOGY TISSUE WORKFLOW

ID	Test Description / Steps	Expected Result	Status	Notes / Defect Ref
AP-001	Receive surgical pathology specimen. Print cassette and container barcodes. Confirm specimen tracked in Beaker AP.	Specimen received and logged. Cassette barcode prints correctly. Specimen status = Received in Beaker AP queue.	[] Pass [] Fail [] N/A	
AP-002	Complete grossing step including tissue description entry and cassette assignment. Confirm documentation saved.	Grossing description saved. Cassette count recorded. Case advances to processing queue. Timestamp logged.	[] Pass [] Fail [] N/A	
AP-003	Scan cassette barcode at embedding station. Confirm chain of custody tracked.	Cassette scan logged at embedding. Case history shows embedding station and technologist ID.	[] Pass [] Fail [] N/A	
AP-004	Complete CAP synoptic colorectal carcinoma template. Attempt to finalize without completing required fields.	Required fields enforce data entry. System prevents finalization. Error message lists missing required elements.	[] Pass [] Fail [] N/A	
AP-005	Complete and finalize surgical pathology report. Confirm result routes to ordering provider in-basket.	Report finalized. Ordering provider receives in-basket notification. Report visible in patient chart immediately.	[] Pass [] Fail [] N/A	

AP - IHC, CYTOLOGY, AND SPECIAL STAINS

ID	Test Description / Steps	Expected Result	Status	Notes / Defect Ref
----	--------------------------	-----------------	--------	--------------------

AP-006	Order ER/PR IHC panel on breast biopsy case. Confirm stain order routes to IHC lab and result template loads.	IHC order appears in IHC lab queue. Stain result template with ER/PR scoring fields loads for pathologist.	[] Pass [] Fail [] N/A	
AP-007	Complete cervical cytology case using Bethesda System result dictionary. Select HSIL result category.	HSIL result records correctly. Follow-up referral pathway (ColposcopyConnect or equivalent) triggers per configuration.	[] Pass [] Fail [] N/A	
AP-008	Attempt to order a specimen source that has conflicting ORD325 entry between cytology and microbiology.	Correct specimen source routes to cytology workflow. Microbiology source remains unaffected. No cross-contamination.	[] Pass [] Fail [] N/A	

DATA MIGRATION AND INTERFACE VALIDATION

ID	Test Description / Steps	Expected Result	Status	Notes / Defect Ref
DM-001	Verify total migrated CP record count matches legacy LIS source count by test type.	Record counts match within agreed tolerance. Any discrepancies documented with root cause.	[] Pass [] Fail [] N/A	
DM-002	Select 10 random migrated chemistry results. Compare field values against legacy LIS screenshot.	All 10 records match legacy source exactly. No truncation, encoding errors, or missing components.	[] Pass [] Fail [] N/A	
DM-003	Verify archive system (Ellkay or equivalent) accessible from Epic chart. Open legacy pathology report.	Archive link visible in patient chart. Legacy pathology report opens correctly in archive viewer.	[] Pass [] Fail [] N/A	
DM-004	Validate ELR (electronic laboratory reporting) message fires for reportable condition result.	HL7 ELR message sent to state health department endpoint. Message acknowledged. No errors in Bridges log.	[] Pass [] Fail [] N/A	

QA Lead Sign-off: _____
Lab Medical Director: _____
Date: _____
Cycle #: _____