

CLINICAL LABORATORY AUTOMATION »

ISB - Intelligent Sample Bank



» Move healthcare forward.

When it comes to automated laboratory solutions, nothing says quality, productivity and value quite like Beckman Coulter.

ISB for the AutoMate 2500 Family boosts the possibilities of your laboratory automation system by providing a fully integrated sample bank solution for long term archiving.

This powerful tool works with your AutoMate 2500 Family instrument to build and manage a sample bank with a maximum of efficiency and security.

Move your lab forward with ISB and support accreditation, biohazard waste reduction and legal requirements* with increased control and full sample traceability.

IN-LINE SAMPLE BANK MANAGEMENT WITH THE AUTOMATE 2500 FAMILY

Integrated microtube rack processing on the AutoMate 2500 Family with Sorting-Drive and iPAW provides an exceptional smart sample bank solution within one lab automation instrument and is the foundation of a new approach in sample bank management: Beckman Coulter's Intelligent Sample Bank (ISB).

ISB guarantees automated sample bank preparation for the ultimate workflow management and control.

- › 2D coded microtubes ensure failsafe processing
 - **Positive identification of each sample**

- › Manage archiving, retrieval for re-run, sample reintroduction or sample disposal
 - **Workflow management for all sample bank operations**

- › AutoMate 1250 or AutoMate 2550 prepare aliquots directly into the microtube racks
 - **Sample bank creation can be done in the pre-or post analytical process**

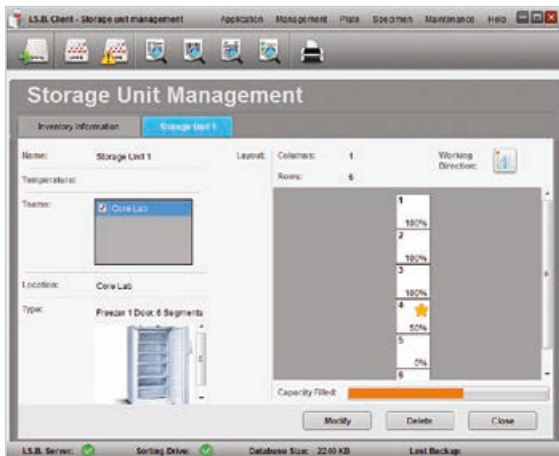
- › Connect unlimited AutoMate 2500 Family units to one ISB Server, also across multi-site facilities
 - **Intelligent Sample Bank management at every location**

*Local laws require sample banks for certain tests.

SUPERIOR WORKFLOW AND CONTROL WITH INTELLIGENT SAMPLE BANK SOFTWARE »

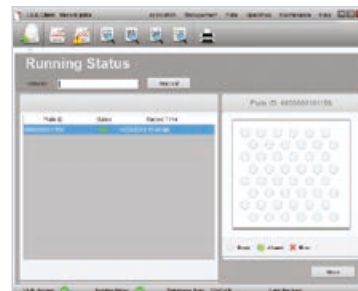
1. User and storage unit management

- a. Individual user login supports accreditation
- b. Organize users in teams with authorized access to designated storage units
- c. Option to allocate samples with specific test requests to designated storage units

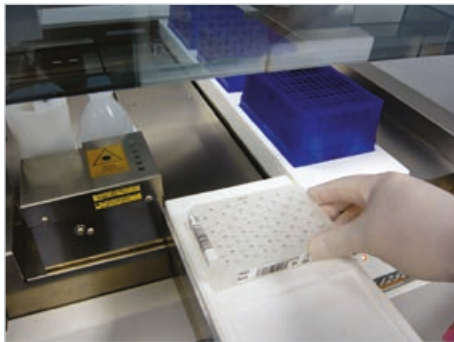


2. Intelligent Sample Bank processing

- a. Archiving in a microtube rack with up to 48 samples
 - i. Register empty plate by scanning the barcode of the plate.

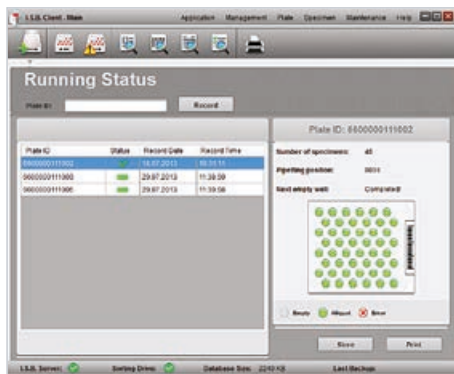


- ii AutoMate 1250 / 2550 automatically aliquots into the microtube rack by workflow configuration in Sorting-Drive and transmits the aliquot information to the ISB Software



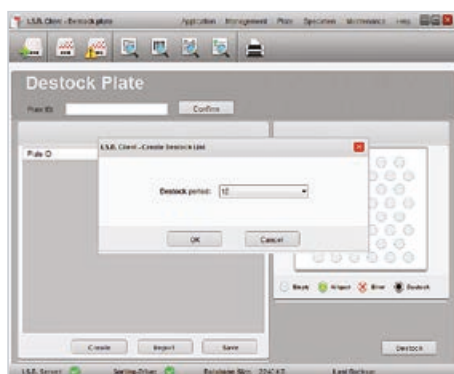
- iii. ISB Software notifies user when a microtube rack is ready for archiving and proposes the best available storage location according to storage unit configuration based on user, team and assigned tests

Note: The proposal will consider all factors and all of these properties are always assigned to the storage units!

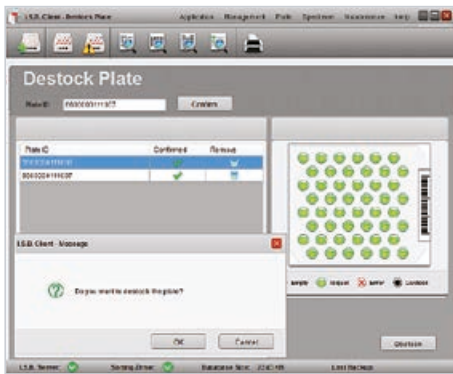


b. Destock microtube racks after archiving period

- i. ISB Software keeps a record of each action during the archiving period (up to a maximum of 5 years). This information is never deleted, even after the microtube rack is discarded.

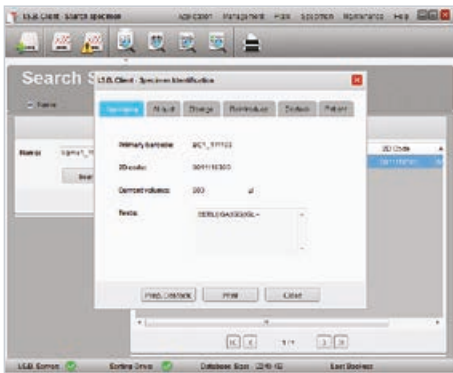


- ii. ISB Software ensures that no microtube rack is mistakenly discarded during the mandatory storage period.

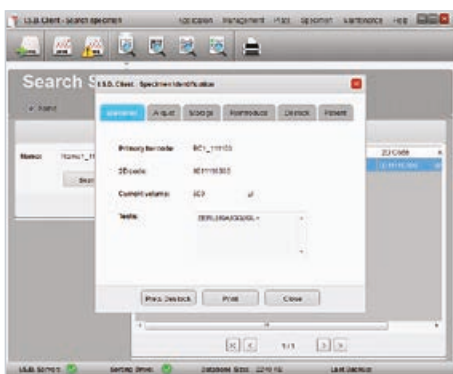


c. Retrieve samples for re-run

- i. Sample retrieval can be done by patient name, primary tube ID, aliquot date or test.

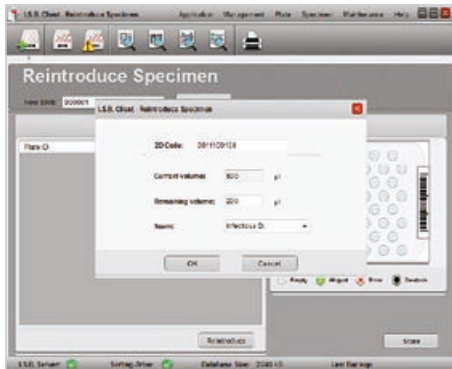


- ii. ISB Software destocks the microtube only if the 2D code provided by the user is confirmed (by using the 2D code reader).

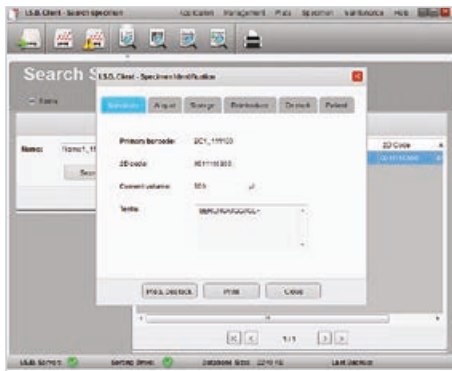


d. Reintroduce samples into the sample bank

- i. Special Reintroduction Rack (SRR) is used to restore microtubes that were manually retrieved (part of the total volume removed) during the mandatory storage period.



- ii. ISB Software records all information during the reintroduction process (user, volumes...).



ISB SOFTWARE SPECIFICATION

Maximum Archive Period	> 5 Years
Maximum Database Size	> 4000 MB
Maximum Number of Connected AutoMate 2500 Family Units	> Unlimited
Maximum Number of Connected ISB Clients to One ISB Server	> 10
Type of Host Connection	> TCP / IP and RS-232
Barcode Definition	> Maximum length of barcode: 30 digits Characters allowed: 0 to 9 A to Z ! # \$ () < = > ?] [_ { } No case sensitivity
2D Code Definition	> Notify only Datamatrix (refer to DI0084: 4.1.04 The 2D Reader shall be able to read Data Matrix 2D codes)
Test Order Code Definition	> Maximum number of test orders: Unlimited Maximum length of test order code: 50 digits Characters allowed: 0 to 9 A to Z ! # \$ () < = > ?] [_ { } No case sensitivity

HARDWARE SPECIFICATION

System	Sorting Drive Plus (A89483)	Sorting-Drive Professional (A94144)	iPAW (A89492)
Dimensions (WHD)	430 x 175 x 450 mm (17 x 7 x 17.7 inch)	430 x 176 x 546 mm (17 x 7 x 21.5 inch)	800 x 342 x 475 mm (31.5 x 13.5 x 18.7 inch)
Weight	12.7 kg (26.5 lbs)	12.7 kg (42 lbs)	28.9kg (63.7 lbs)
CPU	Intel DualCore E8400 3.0 GHz	Intel DualCore E5300 2.6 GHz	Intel Pentium M 2.0 GHz
Memory	2 x 2048 MB	2 x 2048 MB	1024 MB
LAN	2 Interfaces 1000 RJ45	1 Interface 1000 RJ45	2 Interfaces 1000 RJ45
Hard disk	1x 250 GB	4x 250 GB	1x 40 GB
Power supply	AC Power supply 300W	AC Power supply 420W	AC Power supply 180W
	100-240 V, 50/60 Hz	90-264 VAC, 47/63 Hz	100-240 VAC, 50/60 Hz
	Max. 4 A	4 A / 8 A	Max. 4 A
Operating Environment	Operating temperature (C) +10° to +45° (F) +50° to +113°	Operating temperature (C) +10° to +35° (F) +50° to +95°	Operating temperature (C) +5° to +45° (F) +41° to +113°
	Humidity: 8-90% non-condensing	Humidity: 8-90% non-condensing	Humidity: 20-85% non-condensing

* Optional feature (only available for AutoMate 1250 and AutoMate 2550)

** Optional feature

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