

510(k) Summary

Date Prepared

May 13, 2024

510(k) Owner

Immucor, Inc. 3130 Gateway Drive Norcross, Georgia 30071

Establishment Registration Number: 1034569

Contact Information

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Modified Device Information

Device Classification Name	Blood Establishment Computer Software and
	Accessories
Tradename	ImmuLINK (v3.2)
Device Name	Blood Establishment Computer Software and
	Accessories
Regulation Number	864.9165
Classification Product Code	MMH
Classification Advisory Committee	Hematology
Review Advisory Committee	Hematology

Predicate Device Information

Tradename	ImmuLINK (v3.0)
Company	Immucor, Inc.
510(K) Number	BK230806
Decision Date	04/25/2023
Regulation Number	864.9165
Classification Product Code	MMH

Device Description

ImmuLINK is middleware software that allows the user to link the application software database on automated (and/or semi-automated) blood bank instruments; the user may also link the instrument database(s) with the user's Laboratory Information System (LIS).

ImmuLINK is installed on a web server running Microsoft SQL Server 2016 (all editions, including the express). The user accesses the ImmuLINK web application via a PC workstation running either Microsoft Internet Explorer 11, Microsoft Edge, or Chrome as the browser.



ImmuLINK is software designed to provide an interface between the user, blood bank instruments, and Blood Establishment Computer. ImmuLINK allows integration of sample, donor, or patient data that has been collected from multiple sources and provides data management tools to create customizable reports from the diverse data.

ImmuLINK is a software package designed to provide an interface between the operator, blood bank automated (and semi-automated) instruments and Blood Establishment Computer Software, such as the Laboratory Information System (LIS). ImmuLINK allows the integration of sample, donor, or patient data that has been collected from multiple sources and provides data management tools to create customizable reports from the diverse data.

ImmuLINK is configurable to interface with multiple instrument platforms including (but not limited to) Immucor's Galileo Neo, NEO Iris, Galileo Echo and Echo Lumena Blood Bank Systems, and BioArray's Array Imaging System (AIS) semi-automated instrument and associated products.

ImmuLINK is used as a remote validation tool so that the result of a test produced by a testing platform can be validated prior to delivery to an LIS. This delivery is characterized by the transmission of an information package. The result validation requires an electronic signature for approval and can be performed remotely without having to be in the laboratory where the result was produced. Results can also be viewed and edited prior to the ImmuLINK validation.

ImmuLINK has bi-directional features, whereby test orders can be retrieved from the LIS and then transmitted to the appropriate instrument platform(s).

ImmuLINK includes an Antibody ID feature which allows viewing Master List information, executing the Antibody ID algorithm evaluation, assigning an antibody to the result, and printing the results on a master list template. The Antibody ID algorithm for applying rules as defined in AABB manual for rule out/in of antibodies in blood samples. The algorithm provides user with suggested antibody assignments or antibodies that require additional investigation.

Intended Use

ImmuLINK is software intended for use in a blood banking environment as an aid in interfacing and managing data between blood bank instruments, Blood Establishment Computer Software, and Laboratory Information Systems. ImmuLINK includes the following features and/or functions:

- It provides the ability to create and print reports of tests and results.
- It supports the ability to compare current results with previous results.
- It supports the automatic ordering of reflex tests.
- It provides a tool so that test results produced by a testing platform can be remotely validated prior to delivery to an LIS. Results can also be viewed remotely and edited prior to delivery to an LIS.
- It provides bi-directional communication between an LIS and instrument platform(s).
- It provides a tool to assist with antibody exclusion and identification for Capture-R results that is based upon the approach recommended in the Technical Manual (AABB).
 ImmuLINK does not provide diagnostic interpretations of antibodies; final clinical interpretation must be performed by a trained user.



Technological Comparison to Predicate Devices

Below is a summary of the technological characteristics of modified device compared to the predicate devices.

Characteristic / Feature	ImmuLINK (v3.0) (Predicate)	ImmuLINK (v3.2) (Modified Device)
Classification	II	SAME
Product Code	MMH	SAME
Regulation Number	21 CFR 864.9165	SAME
Multi-Instrument Connectivity	Capable of interfacing with more than one instrument at a time	SAME
Thin-client	A computer or a computer program which depends heavily on some other computer (its server) to fulfill its traditional computation	SAME
Multiple, Concurrent Users	More than one end user	SAME
LIS Backup	Continuous results production while your LIS is unavailable	SAME
Integrated QC	Customer is able to perform the qc using the same run controls and software will check the status of the qc for each instrument	SAME
Data Storage	Able to store data	SAME
Data Retrieval	Able to retrieve data	SAME
Data Mining	Able to turn data into information through analysis	SAME
Serology Results	Capable of displaying serology-based results	SAME
Molecular Results	Capable of displaying molecular based results	SAME
Regulatory Compliance	Documentation control for better regulatory compliance	SAME
Specimen Routing	Sample processing for better turnaround time	SAME
User-defined rules	Customer customizable rules based on workflow and lab practices	SAME
Rules-based decision processing	Yes	SAME
Real-time delta checking	Current results are checked against previous results (when available) in real time	SAME
Reflex ordering	Automatic ordering of follow-up test based on previous results	SAME
Previous results	Allow for storage of prior results	SAME
Color coding using rules logic	Ability to display information in various colors based on outcome of predefined rules	SAME
Filtering	Ability to display information based on end user profile	SAME



Characteristic / Feature	ImmuLINK (v3.0) (Predicate)	ImmuLINK (v3.2) (Modified Device)
Reactions Images Storage	Storage of result images	SAME
Images Review	Provides viewing of result images	SAME
Instrument Log details	Captures and displays logs from instruments	SAME
Intended Use	ImmuLINK is software intended for use in a blood banking environment as an aid in interfacing and managing data between blood bank instruments, Blood Establishment Computer Software, and Laboratory Information Systems. ImmuLINK includes the following features and/or functions: • It provides the ability to create and print reports of tests and results. • It supports the ability to compare current results with previous results. • It supports the automatic ordering of reflex tests. • It provides a tool so that test results produced by a testing platform can be remotely validated prior to delivery to an LIS. Results can also be viewed remotely and edited prior to delivery to an LIS. • It provides bi-directional communication between an LIS and instrument platform(s). • It provides a tool to assist with antibody exclusion for Capture-R results that is based upon the exclusion (rule-out) approach recommended in the Technical Manual (AABB).	ImmuLINK is software intended for use in a blood banking environment as an aid in interfacing and managing data between blood bank instruments, Blood Establishment Computer Software, and Laboratory Information Systems. ImmuLINK includes the following features and/or functions: • It provides the ability to create and print reports of tests and results. • It supports the ability to compare current results with previous results. • It supports the automatic ordering of reflex tests. • It provides a tool so that test results produced by a testing platform can be remotely validated prior to delivery to an LIS. Results can also be viewed remotely and edited prior to delivery to an LIS. • It provides bi-directional communication between an LIS and instrument platform(s). • It provides a tool to assist with antibody exclusion and identification for Capture-R results that is based upon the approach recommended in the Technical Manual (AABB). ImmuLINK does not provide diagnostic interpretations of antibodies; final clinical interpretation must be performed by a trained user.

Basis for Claim of Substantial Equivalence

The modified ImmuLINK is substantially equivalent to the predicate devices relative to technological characteristics of the software devices.

This Traditional 510(k) is submitted to modify legally a marketed, predicate device. Fundamental scientific technology of the proposed device is unchanged from the legally marketed, predicate. There are no significant differences between the modified device and the predicate as related to the Intended Use or Principle of Operation, except for the addition to the Intended Use statement that it provides a tool to assist with antibody exclusion and identification for Capture-R results that is based upon the approach recommended in the Technical Manual (AABB).

Based on the indications for use, technological characteristics, and performance testing, that modified ImmuLINK (v3.2) is safe and effective for the intended use described above.