

510(k) Summary

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510(k) Owner

Immucor, Inc.
3130 Gateway Drive
Norcross, Georgia 30071

Establishment Registration Number: 1034569

Contact Information

Name of Contact:	Steven Appel
Phone Number:	770-440-2051
Fax Number:	770-242-8930

Modified Device Information

Device Classification Name	Blood Establishment Computer Software and Accessories
Tradename	ImmULINK (v3.3)
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 (v3.2)
Company	Immucor, Inc.
510(K) Number	BK241080
Decision Date	08/06/2024
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 Windows Server 2022 64-bit (Standard edition) with Microsoft SQL Server 2019 or 2022 (all editions, including the express). For customers not able to utilize server installation, ImmULINK can be installed on a PC workstation running

Windows 11 Professional and Microsoft SQL Server 2022 Express. The user accesses the ImmuLINK web application via a PC workstation running either Microsoft Edge or Google 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|manage includes an Antibody ID feature which provides review of Master List for Capture-R products combined with instrument results and to facilitate optional antibody exclusion and identification capabilities. The Antibody ID feature can optionally include results from manual testing using liquid reagent red blood cells. ImmuLINK does not provide diagnostic interpretations of antibodies; final interpretation of results must be performed by a trained user.

ImmuLINK includes an archive feature which is used to create and view result archives, which are stored in a secure environment.

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 that is based upon the approach recommended in the Technical Manual (AABB). ImmuLINK does not provide diagnostic interpretations of antibodies; final interpretation of results 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	ImmunoLINK (v3.2) (Predicate)	ImmunoLINK (v3.3) (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

Characteristic / Feature	ImmuLINK (v3.2) (Predicate)	ImmuLINK (v3.3) (Modified Device)
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
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	<p>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:</p> <ul style="list-style-type: none"> • 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. 	<p>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:</p> <ul style="list-style-type: none"> • 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 that is based upon the approach recommended in the <i>Technical Manual</i> (AABB). ImmuLINK does not provide diagnostic interpretations of antibodies; final interpretation of results 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, or safety.

Based on the indications for use, technological characteristics, and performance testing, that modified ImmuLINK (v3.3) is safe and effective for the intended use described above.