

# Capture<sup>®</sup>

## Trusted



Everyday, 40 million times a year in North America alone, labs continue to express their well found confidence in the easiest, most dependable technology available.



Transfuse | Transplant | Transform **a life**



For over 30 years, thousands of labs across the world have trusted Capture® solid phase technology. In fact, Immucor, the proven leader in blood bank automation, brings you solid phase technology so reliable, Capture-R® Ready-Screen® is the method for screening approximately 98% of the North American blood supply. With a full line of assays to suit your specific needs – and innovative equipment to facilitate and automate the process – Capture becomes the only logical choice for antibody screening and identification.

## Flexible

- Flexible workflow capabilities with manual or automated options (NEO® and Echo®)
- Run a single sample or a full batch

## Easy to Use

- Capture microplates have an average shelf life of 120 days
- Pre-coating of antigens, eliminates unnecessary handling of red cell panels
- Ready to use reagents
- No precision pipetting
- Same methodology and procedures for all assays, allowing standardization of testing and ease of training

## Quick Results

- Samples screened in as little as 25 minutes
- Batch processing allows throughput of several hundred tests per hour

## Cost Efficient

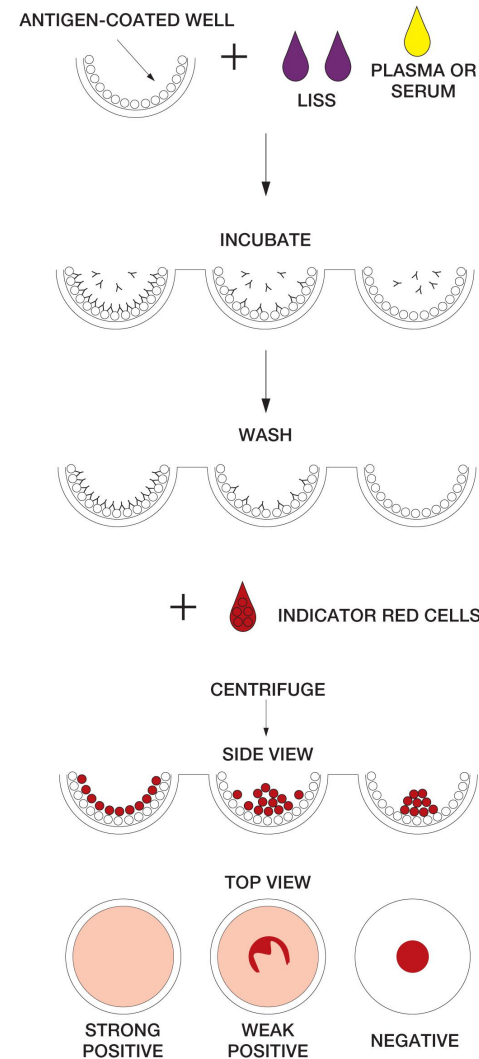
- Competitively priced
- Microplate technology is easily automated, leading to higher lab productivity

## Reliable

- IgG specific technology clearly detects clinical significant antibodies
- Sensitivity and specificity are higher than manual tube or gel methods
- Easily distinguish between negative and positive results
- Allows processing of hemolyzed, rouleaux, lipemic or icteric samples
- Capture® LISS changes color assuring sample addition
- Controls on each run assures validity of test procedure
- Results are stable for two days

Antigens are pre-coated on microplate wells

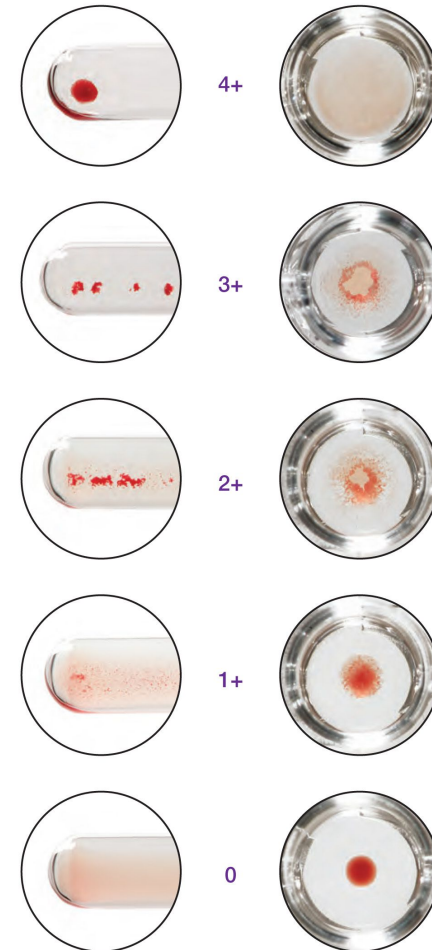
## Test Procedure



## Grading Chart

### Hemagglutination

### Capture®



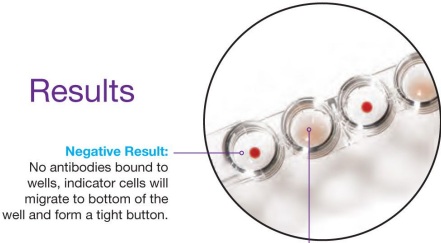
# Capture® Workstation

The Capture Workstation allows antibody screening and identification to be more efficient:

- **P2 Incubator** – This dual bay incubator means there's no bottleneck during test processing. You can process multiple runs simultaneously, allowing you to continuously process your dynamic workflow.
- **CSW 100** – This automated cell washer is preprogrammed for optimal performance, and the wash cycle is less than 30 seconds per strip. Capture's wash step allows the processing of hemolyzed, rouleaux, lipemic or icteric samples.
- **ImmuSpin** – This centrifuge has a digital display for easy reading. Centrifugation time is less than 3 minutes for all Capture assays.

Capture features a versatile test menu and flexible workflow capabilities with manual or automated options. Immucor offers your laboratory an efficient test method which provides standardized test results with higher sensitivity and specificity than manual tube or gel.

## Results



### Negative Result:

No antibodies bound to wells, indicator cells will migrate to bottom of the well and form a tight button.

### Positive Result:

Antiglobulin-coated indicator cells bind to antibody-coated wells forming an intact layer of cells on the well surface.

## Six Simple Steps



### Add LISS

Remove strip from foil pouch. Appropriate antigens for the test are pre-coated on the well.\* Add two drops of Capture® LISS.

\*If using Capture-P® or Capture-R Select®, prepare platelet or red cell monolayer first.



### Incubate

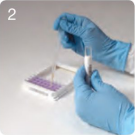
Incubate test strips in P2.\*

\*except Capture®-CMV which requires incubation at room temperature.



### Add Indicator Cells

Add one drop of indicator cells to each of the test wells.



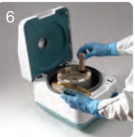
### Add Patient Sample

Using a routine blood bank pipette, add one drop of donor/patient plasma. Add one drop of controls.



### Wash

Wash test strips in the automated washer.



### Centrifuge and Read Results

Centrifuge test strips. Read reactions.

# Specifications

## ImmuSpin:

|                           |  |
|---------------------------|--|
| Product Codes.....        | 0015158 (Rotor Only)<br>0015159 (Centrifuge)                           |
| Operating temperature ... | 5 to 40 C.   |
| Dimensions W/L/H .....    | 11 x 12.8 x 10.3 inches  |
| Capacity .....            | Centrifuges Capture-type micro-strips anywhere between 1 and 12 strips |
| Weight .....              | 25 lbs.  |
| Power Supply .....        | 110-127 V~ (+/- 10%), 50-60Hz, 5 A, 360 W                              |
| Programming .....         | Four (4) programs  |
| Noise level .....         | 58 – 66 dB (A)   |

## P2 Incubator:

|                              |  |
|------------------------------|--|
| Product Code.....            | 0030205  |
| Incubation Temperature.....  | 36-38°C  |
| Operating Conditions .....   | 18-25°C  |
| Dimensions W/L/H .....       | 12 x 12 x 3.2 inches   |
| Incubation Bays.....         | 2  |
| Weight .....                 | 7 lbs.   |
| Type of Microplates .....    | Capture-type with 8 wells per strip/or 16 wells per double-strip |
| Minimum Timer Setting .....  | 1 min  |
| Temperature Resolution ..... | 0.1°C  |
| Power Supply .....           | 100-240 VAC, 50-60Hz, 1.7 A                                      |

## CSW 100:

|                                |  |
|--------------------------------|--|
| Product Code.....              | 0005175  |
| Operating temperature .....    | 10 to 40 C.  |
| Dimensions W/L/H .....         | 11 x 14.5 x 9.5 inches   |
| Capacity .....                 | Washes Capture type microstrips anywhere between 1 and 12 strips |
| Fluid reservoir capacity ..... | 2L   |
| Weight .....                   | 12 lbs.  |
| Power Supply .....             | 99-132 VAC / 198-264 VAC, 50-60Hz                                |
| Programming .....              | Two (2) washing programs (P1 and P2)                             |



## Required Capture Workstation Equipment

\*All Capture® equipment supports Capture-R®, Capture-P®, and Capture-CMV® products.

### ImmuSpin Centrifuge

Product codes:  
0015158 (Rotor only), 0015159 (Centrifuge)  
This centrifuge accommodates up to 12 Capture® microstrips and spins at rates ranging from 500 to 18,000 RPMs. For easy reading, it has a digital display.

### CSW100 Washer

Product code: 0005175  
The continuous flow of this cell washer assures accurate, consistent plate washing. The unit accommodates one microplate or up to 12 microstrips. The washing cycle takes less than 30 seconds per strip and the pre-programmed settings are optimized for Capture® technology.

### P2 Incubator

Product code: 0030205  
Two incubation bays means there's no bottleneck during test processing. You can process multiple runs simultaneously, allowing you to continuously process your dynamic workflow.

### Light Box

Product code: 0005133  
With 5000K color-corrected lamps and an angled platform to optimize viewing, this light box makes results extremely easy to read.



# Product Line Assays

Capture-R® Ready-Screen® Assays: Reagent red cells (in the form of red cell stroma) are bound to test wells at the time of manufacture. The user is not required to prepare reagent monolayers before testing. Capture-R Ready-Screen tests are provided in 1 x 8 strips of microwells. Each microplate contains twelve 1 x 8 strips.

| Capture-R® Ready-Screen® (I and II):   | Product Code | Description                            | Size               |
|--|--------------|--|--------------------|
| Contains alternating wells coated with red cell membranes from one of two group O donors. Each strip consists of eight individual wells to perform four (2-cell) antibody screens. | 0006439      | Capture-R Ready-Screen (I and II)      | 1 plate/ 48 tests  |
|  | 0006440      | Capture-R Ready-Screen (I and II)      | 5 plates/240 tests |
|  | 0066207      | Capture-R Ready-Screen (I and II) Dia* | 1 plate/48 tests   |
|  | 0066217      | Capture-R Ready-Screen (I and II) Dia* | 5 plates/240 tests |
|  | 0066202      | Capture-R Ready-Screen (I and II) Cw*  | 1 plate/48 tests   |
|  | 0066212      | Capture-R Ready-Screen (I and II) Cw*  | 5 plates/240 tests |

| Capture-R® Ready-Screen® (3):   | Product Code | Description                     | Size               |
|---|--------------|---------------------------------|--------------------|
| Contains alternating wells coated with red cell membranes from one of three group O donors. Each strip consists of eight individual wells to perform two (3-cell) antibody screens. The fourth well of each antibody screen consists of a built-in positive control, a dried cell that is sensitized with IgG Anti-D. | 0066803      | Capture-R Ready-Screen (3)      | 1 plate/ 24 tests  |
|   | 0066813      | Capture-R Ready-Screen (3)      | 5 plates/120 tests |
|   | 0066805      | Capture-R Ready-Screen (3) Dia* | 1 plate/24 tests   |
|   | 0066815      | Capture-R Ready-Screen (3) Dia* | 5 plates/120 tests |
|   | 0066804      | Capture-R Ready-Screen (3) Cw*  | 1 plate/24 tests   |
|   | 0066814      | Capture-R Ready-Screen (3) Cw*  | 5 plates/120 tests |

| Capture-R® Ready-Screen® (Pooled):  | Product Code | Description                          | Size               |
|---|--------------|--------------------------------------|--------------------|
| Each well is coated with red cell membranes prepared from a pool suspension of equal proportions of red cells from two Group O donors. Each strip consists of eight individual wells to perform eight antibody screens. | 0006433      | Capture-R Ready-Screen (Pooled)      | 1 plate/96 tests   |
|   | 0006436      | Capture-R Ready-Screen (Pooled)      | 5 plates/480 tests |
|   | 0066203      | Capture-R Ready-Screen (Pooled) Cw*  | 1 plate/96 tests   |
|   | 0066213      | Capture-R Ready-Screen (Pooled) Cw*  | 5 plates/480 tests |
|   | 0066254      | Capture-R Ready-Screen (Pooled) Dia* | 5 plates/480 tests |
|   |              |                                      |                    |

| Capture-R® Ready-ID®   | Product Code | Description                  | Size              |
|--|--------------|------------------------------|-------------------|
| To be used in the identification of antibodies to red cell antigens. The primary Ready-ID 2 x 8 strips contain test wells coated with the red cell membranes of 14 O single donors. The donors are selected to possess most of the frequently inherited antigens. The Ready-ID Extend I 2 x 8 strips contain test wells coated with D-positive red cell membranes of 14 group O single donors. The Ready-ID Extend II 2 x 8 strips contain test wells coated with D-negative red cell membranes of 13 group O single donors. | 0066204      | Capture-R Ready-ID           | 1 plate/6 tests   |
|  | 0066214      | Capture-R Ready-ID           | 5 plates/30 tests |
|  |              |                              |                   |
|  | 0006454      | Capture-R Ready-ID Extend I  | 1 plate/6 tests   |
|  | 0006455      | Capture-R Ready-ID Extend I  | 5 plates/30 tests |
|  |              |                              |                   |
|  | 0006456      | Capture-R Ready-ID Extend II | 1 plate/6 tests   |
|  | 0006457      | Capture-R Ready-ID Extend II | 5 plates/30 tests |

| Capture-R® Select   | Product Code | Description      | Size               |
|---|--------------|------------------|--------------------|
| Capture-R Select provides modified microwells for the immobilization of human erythrocytes. To be used in solid phase assays for the detection of IgG red cell antibodies (e.g., antibody screening, selected red cell panels, autologous controls, direct antiglobulin test, crossmatching, or typing with IgG anti-sera including weak D detecting reagents). | 0006446      | Capture-R Select | 5 plates/480 tests |
|   |              |                  |                    |
|   |              |                  |                    |
|   |              |                  |                    |
|   |              |                  |                    |
|   |              |                  |                    |

| Capture-P® Ready-Screen®  | Product Code | Description   | Size            |
|---|--------------|---|-----------------|
| Consists of a 2 x 8 strip of microwells to which the platelet membranes of 13 different Group O donors have been bound. Plates contain six 2x8 strips for up to 6 patient tests and will detect platelet-specific and HLA antibodies. | 0066247      | Capture-P Ready-Screen                                  | 1 Plate/6 tests |
|   | 0066240      | Capture-P Indicator Cells                               | 1 x 11.5 mL     |
|   | 0066248      | Capture-P Control Set Weak Positive & Negative Controls | 2 x 3 mL        |
|   |              |   |                 |

| Capture-P®  | Product Code | Description   | Size               |
|---|--------------|---|--------------------|
| Test wells are coated with anti-platelet antibodies which provide for the specific binding of platelets when the source of platelets is platelet-rich plasma. The assay will detect platelet-specific and HLA antibodies. | 0066246      | Capture-P   | 1 Plate/96 tests   |
|   | 0066251      | Capture-P   | 5 Plates/480 tests |
|   | 0066240      | Capture-P Indicator Cells                               | 1 x 11.5 mL        |
|   | 0066248      | Capture-P Control Set Weak Positive & Negative Controls | 2 x 3 mL           |
|   |              |   |                    |

| Capture-CMV®   | Product Code | Description   | Size               |
|--|--------------|---|--------------------|
| A solid phase system for the detection of IgG + IgM antibodies to cytomegalovirus (CMV) in human serum or plasma. Tests are performed in 1 x 8 strips of microwells coated with a CMV antigen. | 0066206      | Capture-CMV   | 1 Plate/96 tests   |
|  | 0066216      | Capture-CMV   | 5 Plates/480 tests |
|  | 0066238      | Capture-CMV Indicator Cells                               | 1 x 11.5 mL        |
|  | 0066239      | Capture-CMV Control Set Weak Positive & Negative Controls | 2 x 3 mL           |
|  |              |   |                    |

| Capture Components | Product Code | Description                                    | Size         |
|--------------------|--------------|--|--------------|
|                    | 0006427      | Capture-R Ready Indicator Red Cells            | 1 x 11.5 mL  |
|                    | 0006428      | Capture-R Ready Indicator Red Cells            | 10 x 11.5 mL |
|                    |              |  |              |
|                    | 0006419      | Capture LISS                                   | 1 x 11.5 mL  |
|                    | 0006420      | Capture LISS                                   | 10 x 11.5 mL |
|                    | 0066231      | Capture LISS                                   | 6 x 57 mL    |
|                    | 0066236      | Capture-R Control Set (Weak Positive/Negative) | 2 x 11.5 mL  |
|                    | 0005070      | pHix (Phosphate Buffer Concentrate)            | 6 x 200 mL   |
|                    |              |  |              |
|                    | 0005035      | Capture-P Platelet Wash and Storage Solution   | 1 liter bag  |
|                    |              |  |              |

\*Available on the NEO® and Manual Capture® Workstation



To learn more or to set up a consultation with one of our Blood Bank Business Managers, call **855.IMMUCOR** (855.466.8267) or visit **[www.immucor.com](http://www.immucor.com)**.

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