

# Skin Testing Devices

Make it personal—for each of your allergy patients



STALLERGENES  GREER

# Single- and Multiple-Site Skin Testing Systems

Each one of your patients walks into your office with his or her own unique situation and tolerance level. This is why Stallergenes Greer offers two skin testing device options to help meet the needs of your allergy patients.



Single Site



Skintestor OMNI™

10 Sites



The skin testing systems are designed to be used by allergy practitioners who are trained in the administration and interpretation of allergy skin tests, and are trained to provide emergency treatment in the event of a life-threatening reaction. The information contained herein is for healthcare professionals and is intended for background and educational purposes only. It is not intended to provide medical advice or direction. All decisions, including treatment decisions, should always be up to the discretion of a healthcare provider and patient, as each individual's situation will vary. Please refer also to the *Directions for Use* and other additional information in the inside back pocket of this brochure.

## Review protocols for using GREER® Pick® and Skintestor OMNI™ so you can feel more confident in your test results:



### Review Sessions

Led by an allergy immunotherapy professional



### Instructional Videos

Designed to help review proper technique using GREER® Pick® or Skintestor OMNI™

**If you'd like to schedule a Skin Testing Review Session, talk to a Customer Care Specialist at 800.378.3906.**

Our online AIT Resource Library includes the Skin Testing Instructional Videos, GREER® Pick® DFU, and much more!

Talk to your Territory Business Manager or Customer Care Specialist about how to access our available digital resources at [www.STAGRallergy.com/resources/](http://www.STAGRallergy.com/resources/) for helpful information as you test and treat your allergic patients.

# A Leader in Single-Site Allergen Skin Testing Devices



In a 2005 study, GREER® Pick® offered high sensitivity and specificity while maintaining low discomfort. This means, when used correctly, GREER Pick provided a high percent of true positive and true negative results, with minimal pain during testing with patients.<sup>1</sup>

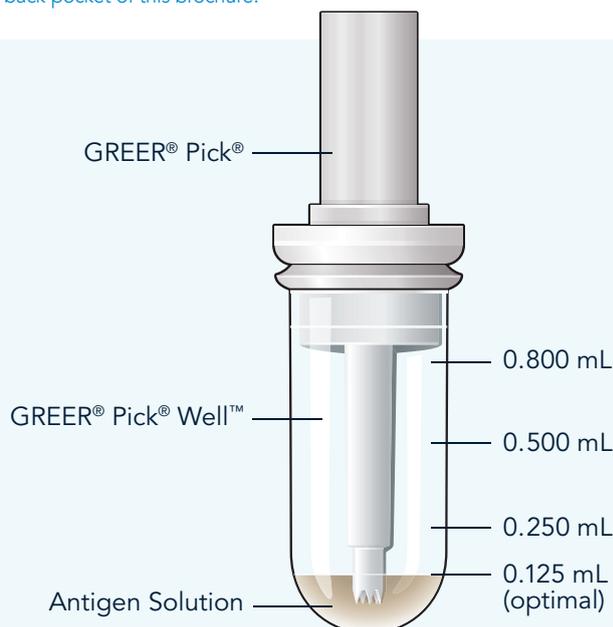
Additionally, when the GREER Pick Wells are filled with 0.125 mL of extract, an average of 1,800 tests can be performed from one 5 mL scratch vial, allowing you to maximize extract usage.<sup>2</sup>

- Stackable 40- and 60-well labeled trays for greater flexibility
  - In testing setup
  - In antigen selection
- Generous space for customized labeling
- Transparent trays to help make it easier for inspection of extract levels
- Sterile packaging of all components
- Convenient tab on 40-well tray lid to aid in lid removal
- Removable wells to help for more efficient replacement, one well at a time

Before using the GREER Pick system, allergy practitioners should be familiar with the instructions contained within the *Directions for Use* (located in the inside back pocket of this brochure) and applicable prescribing information for allergenic extracts and control solutions.

Please refer to the *GREER Pick Usage* guide provided as a separate insert in the inside back pocket of this brochure.

1. Carr WW, Martin B, Howard R, Cox L, Borish L. Comparison of test devices for skin prick testing. *J Allergy Clin Immunol* 2005;116(2):341-346. 2. GREER® Pick® Directions for Use, 2016.



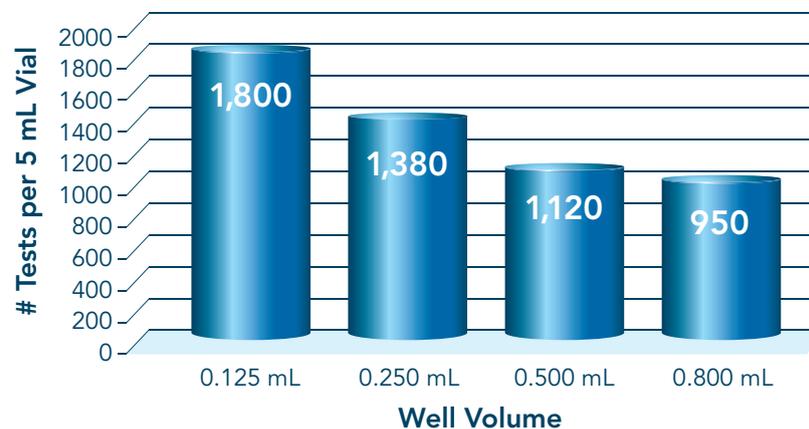
- **Self-loading, 6-tine applicator with capillary action**
  - Holds extract in place until applied to the skin
- **Unique applicator handle**
  - Designed for comfort
- **Closed-well system**
  - For extract integrity maintenance
  - Minimizes likelihood of spills when transporting tray
  - Forms a cap to help prevent potential contamination and evaporation
- **Fully compliant with OSHA Bloodborne Pathogen Standards<sup>3</sup>**

3. United States, Department of Labor, Occupational Safety and Health Administration. *Potential for Occupational Exposure to Bloodborne Pathogens from Cleaning Needles Used in Allergy Testing Procedures*. Sept. 1995, [www.osha.gov/publications/hib19950921](http://www.osha.gov/publications/hib19950921).

# Optimizing Extract Usage with GREER® Pick®



In 2010, volume retention studies were conducted at GREER® using gravimetric measurements (0.125 mL) or depletion sampling (0.250 mL-0.800 mL) of glycerinated extracts at room temperature (20-25° C). Multiple lots of extracts and GREER® Pick® devices were evaluated independently by three study technicians. Yields were extrapolated from averages of 40-150 measurements per analysis.<sup>1</sup>



The GREER Pick skin test device can yield approximately **1,800** tests from a single 5 mL vial of glycerinated extract when the GREER® Pick® Well™ is filled with 0.125 mL of extract.<sup>2</sup>

The GREER Pick is a single-use device and should be discarded after one use. The wells are disposable and can be replaced and filled with the appropriate fresh allergenic extracts and control solutions regularly. Skin tests should not be performed on areas with active dermatitis or severe dermatographism.

1. Data on File: DS080810 An Investigation of Extract Volume Accessibility in Greer Wells to Greer Picks. GREER Laboratories, Inc. 2010.
2. GREER® Pick® Directions for Use, 2016.



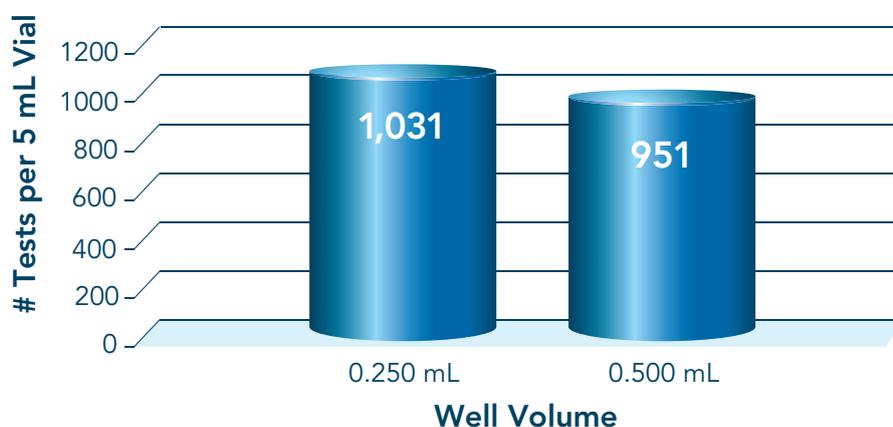
For more information, or to schedule a skin testing device demonstration, contact a Stallergenes Greer Customer Care Specialist at **800.378.3906** or [uscustomecare@stallergenesgreer.com](mailto:uscustomecare@stallergenesgreer.com).



# Allergen Supply Economized and Optimized

## Skintestor OMNI™

In 2010, a gravimetric volume retention analysis was conducted at GREER® using glycerol-saline diluent and fill volumes of 0.250 mL and 0.500 mL. All measurements were performed 25 times at room temperature (20-25° C), with yields calculated from average weights and corresponding volumes removed from the wells at each fill level.<sup>1</sup>



The Skintestor OMNI™ skin test device has yielded an average of **1,031** tests per 5 mL vial of glycerinated extract at an optimal fill level of 0.250 mL of extract.<sup>1</sup>

The Skintestor OMNI is a single-use device and should be discarded after one use. The wells are disposable and can be replaced and filled with the appropriate fresh allergenic extracts and control solutions regularly. Skin tests should not be performed on areas with active dermatitis or severe dermatographism.

<sup>1</sup>. Data on File: DS043010 Comparisons of Uptake of 50% Glycerosaline by Skintestor OMNI Devices Using Wells Loaded with 0.250 mL and 0.500 mL Fills at Ambient and Refrigerator Temperatures. GREER Laboratories, Inc. 2010.

## Potential for High Level of Positive Predictive Value

Values are based on skin test studies conducted in 2010 at several allergy clinics using histamine positive control and glycerol-saline negative control solutions. Results included both wheal and erythema reactions produced on the volar surface of subjects' arms by multiple control solutions loaded onto each device. True positive reactions were defined as diameters 2 mm or higher relative to those of negative controls per subject. True negative reactions were defined as 0 mm wheal diameters or 0-5 mm erythema diameters.<sup>2</sup>

Skintestor OMNI™	
Positive Predictive Value	97.2%
Negative Predictive Value	86.2%

Positive Predictive Value = true positives/(true positives + false positives)  
 Negative Predictive Value = true negatives/(true negatives + false negatives)<sup>2</sup>

<sup>2</sup>. Data on File: DS082710 Summary of Skintestor OMNI Skin Test Studies with Histamine Positive and Diluent Negative Controls. GREER Laboratories, Inc. 2010.

# Over a century of experience serving the allergy community

STALLERGENES  GREER



**Have a question? We're here to help.**

P: 800.378.3906 • F: 800.419.7302  
E: [uscustomer@stallergenesgreer.com](mailto:uscustomer@stallergenesgreer.com)

# Single- and Multiple-Site Skin Testing Systems



## A leader in single-site skin testing devices

- High level of sensitivity and specificity<sup>1</sup>
- Low level of discomfort<sup>1</sup>
- Average of 1,800 tests per 5 mL vial<sup>2</sup>
- Self-loading, 6-tine applicator with capillary action
- Generous space for customized labeling

## Skintestor OMNI™



## Broad screens in less time

- Potential for high level of positive predictive value<sup>3</sup>
- Average of 1,031 tests per 5 mL vial<sup>4</sup>
- Self-loading, 10-site skin testing device for more tests in less time
- 20- and 40-well trays for testing setup flexibility
- Large, covered wells
- Flexible application options on arm or back

**1.** Carr WW, Martin B, Howard R, Cox L, Borish L. Comparison of test devices for skin prick testing. *J Allergy Clin Immunol* 2005;116(2):341-346. **2.** GREER® Pick® Directions for Use, 2016. **3.** Data on File: DS082710 Summary of Skintestor OMNI Skin Test Studies with Histamine Positive and Diluent Negative Controls. GREER Laboratories, Inc. 2010. **4.** Data on File: DS043010 Comparisons of Uptake of 50% Glycerosaline by Skintestor OMNI Devices Using Wells Loaded with 0.250 mL and 0.500 mL Fills at Ambient and Refrigerator Temperatures. GREER Laboratories, Inc. 2010.

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# How to Optimize Extract Usage\* with GREER® Pick®



For optimized usage,\*  
follow the steps below:

- Fill an unused GREER® Pick® Well™ with 0.125 mL of extract
- Handle the GREER® Pick® by the larger end and immediately insert it into the well
- Remove the GREER Pick from the well and briefly inspect to ensure that a small droplet of extract is present at the tip of the device
- Hold the GREER Pick at an approximate 45-degree angle to the skin at the test site, bringing the tip in contact with the skin in the direction the GREER Pick is pointing
- Press the tines, making contact with the superficial skin
- Withdraw the GREER Pick with a slight lifting of the skin
- Discard the used device into a suitable biohazard container
- Repeat steps until testing is complete

For additional information on the GREER Pick System, please refer to the Stallergenes Greer Skin Testing Devices Brochure



\*For more information, please refer to the GREER® Pick® Directions for Use, available at [www.STAGAllergy.com/package-inserts/](http://www.STAGAllergy.com/package-inserts/). The GREER Pick is a single-use device and should be discarded after one use. The wells are disposable and can be replaced and filled with the appropriate fresh allergenic extracts and control solutions regularly. Skin tests should not be performed on areas with active dermatitis or severe dermatographism.

The skin testing systems are designed to be used by allergy practitioners who are trained in the administration and interpretation of allergy skin tests, and are trained to provide emergency treatment in the event of a life-threatening reaction. The information contained herein is for healthcare professionals and is intended for background and educational purposes only. It is not intended to provide medical advice or direction. All decisions, including treatment decisions, should always be up to the discretion of a healthcare provider and patient, as each individual's situation will vary.

# Practical Guide for Usage of Skintestor OMNI™

Based on a 2010 in-house study, it is recommended to fill wells with 0.250 mL of antigen<sup>1</sup>



## Skintestor OMNI™

For practical usage, follow the steps below:

- Match arrow on the Skintestor OMNI device to the arrow on the tray
- Insert device into the tray and remove
- Hold the device perpendicular to the skin with arrow pointing toward the patient, allowing for easy location of each site
- Press down with moderate pressure
- Without lifting, rock the device
  - On arm: rock the device from side to side
  - On back: rock the device from side to side, then top to bottom
- Withdraw the Skintestor OMNI (When properly performed, the test will leave visible marks on the skin without causing bleeding)
- Discard the used device into a suitable biohazard container
- Repeat steps until testing is complete

For additional information on the Skintestor OMNI System, please refer to the Stallergenes Greer Skin Testing Devices Brochure



\* Skintestor OMNI is manufactured by QTI Corporation and distributed by Stallergenes Greer.

1. Data on file. GREER. DS043010: Comparisons of uptake of 50% glycerosaline by Skintestor OMNI devices using wells loaded with 0.250 mL and 0.500 mL fills at ambient and refrigerator temperatures. April 2010

The skin testing systems are designed to be used by allergy practitioners who are trained in the administration and interpretation of allergy skin tests, and are trained to provide emergency treatment in the event of a life-threatening reaction. The information contained herein is for healthcare professionals and is intended for background and educational purposes only. It is not intended to provide medical advice or direction. All decisions, including treatment decisions, should always be up to the discretion of a healthcare provider and patient, as each individual's situation will vary.

## DESCRIPTION

GREER® Pick® is a sterile, single-use (single-site) disposable skin testing system designed to aid in the determination of specific allergen sensitivity in suspected allergic individuals. The system is designed to be used by allergy practitioners who are trained in the administration and interpretation of allergy skin tests, and are trained to provide emergency treatment in the event of a life-threatening reaction. Before using the system, allergy practitioners should be completely familiar with the instructions in this Directions for Use and any applicable prescribing information for allergenic extracts and control solutions.

GREER Pick is a skin testing system used to administer allergenic extracts or control solutions using the prick or puncture skin testing technique. The system is fully compliant with Occupational Safety and Health Administration (OSHA) bloodborne pathogen standards<sup>1</sup> and includes the following components:

1. GREER Pick is supplied in sterile pouches of 42 picks (Figure 1) and is designed to apply allergenic extracts or control solutions to the skin and serves as a cap to the GREER® Pick® Well™ when not in use. Each GREER Pick is a self-loading, six-tine, single-site skin test applicator with a molded plastic grip (Figure 1).

Figure 1



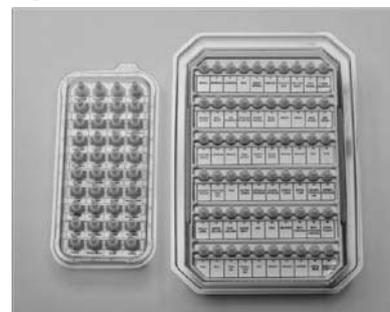
2. The GREER Pick Well (Figure 2) is supplied in sterile pouches of 24 wells, which are intended to contain the allergenic extracts or control solutions for skin testing. The GREER Pick Well is transparent to permit viewing of the level of the allergenic extract or control solution.

Figure 2



3. The GREER® Pick® Tray™ (Figure 3) is available in two sizes to hold GREER Pick Wells for 40 or 60 allergenic extracts and control solutions for testing. The trays are transparent for inspection of extract or control solution levels.

Figure 3



The 40-well GREER Pick Tray comes with a lid and is designed to permit stacking for testing and storage flexibility (Figure 4). A separate lid is available for the 60-well GREER Pick Tray, which also permits stacking of the tray. Each GREER Pick Tray provides ample space for extract labeling.

Figure 4



## PREPARING THE GREER PICK SYSTEM FOR USE

Prior to setting up the GREER Pick skin testing system, determine which allergenic extracts and control solutions will be used for testing.

Each GREER Pick Tray is supplied with customizable self-adhesive labels to be used to identify the allergenic extracts and control solutions in the tray (Figure 5). Make a record the lot numbers and expiration dates of the allergenic extracts and control solutions contained in the wells.

Figure 5



Once the trays are labeled, open the GREER Pick Well pouch and firmly press each well into the position of the tray that will be filled with the allergenic extract or control solution for testing. (Figure 6).

Figure 6



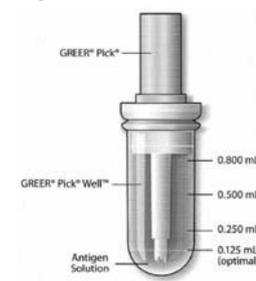
Fill each GREER Pick Well with approximately 0.125 mL (Figure 7) of the appropriate allergenic extract or control solution taking care not to touch nearby wells or the inside wall of the well. Ensure that the allergenic extracts and control solutions in the wells correspond with the labels on the tray. It is recommended that glycerinated extracts containing a phenol preservative be used to inhibit microbial growth.

Figure 7



When the GREER Pick Well is filled with 0.125 mL of glycerinated allergenic extract, approximately 1,800 tests can be performed from one 5 mL vial (Figure 8).<sup>2</sup>

Figure 8



Once each well is filled with the appropriate allergenic extract or control solution, remove a GREER Pick from the sterile pouch. Handle the GREER Pick without touching the testing tines to avoid contamination or damage. Immediately insert one GREER Pick into each labeled well containing allergenic extract or control solution (Figure 9). This serves to minimize the potential for contamination, evaporation, and the likelihood of spills. Once the GREER Pick Tray is labeled, the wells filled with allergenic extracts or control solutions and GREER Picks are inserted, the skin test system is ready for use. When not in use, store the skin

test system in the refrigerator at 2 to 8°C to maintain potency of the allergenic extracts and control solutions.

Figure 9



The GREER Pick is a single-use device and should be discarded after one use. The wells are disposable and can be replaced and filled with the appropriate fresh allergenic extracts and control solutions regularly. This practice will help to ensure allergen potency. Each GREER Pick Well can be replaced individually by simply lifting the well upward and discarding. Empty wells can be identified by viewing through the transparent GREER Pick Tray.

## SKIN TESTING PROCEDURE

The GREER Pick is indicated for use in prick or puncture testing. Skin tests can be performed on the upper back or volar surface of the forearm.<sup>3</sup> It is recommended that approximately 2 to 2.5 cm of space be left between each applied allergenic extract or control solution, and that tests should not be placed within 5 cm of the wrists or within 3 cm from the antecubital fossae.<sup>3</sup> Skin tests should not be performed on areas with active dermatitis or severe dermatographism.<sup>3</sup> Prior to testing, clean the skin test area with alcohol and allow to dry. Mark the skin using a marking pen for placement of the allergen (Figures 10A and 10B).

Figure 10A

Figure 10B



## Prick Testing Method

Remove a GREER Pick from the prepared tray by lifting it vertically, being careful not to touch the tip against the side of the well. Inspect the tip of the device to ensure that a small droplet of allergenic extract or control solution is present (Figure 11).

Figure 11



Hold the GREER Pick at approximately a 45-degree angle to the skin at the test site. Bring the tip of the GREER Pick in contact with the superficial skin maintaining a 45 degree angle (Figure 12) and press gently. Withdraw the GREER Pick with a slight lifting of the skin. This should not induce bleeding. Discard the used GREER Pick in a biohazard container.

Figure 12



Figure 13



### Puncture Testing Method

Remove a GREER® Pick® from the GREER® Pick® Well™ by lifting it vertically, being careful not to touch the tip against the side of the well. Inspect the tip of the device to ensure that a small droplet of allergenic extract or control solution is present (Figure 11).

Hold the GREER Pick perpendicular to the test site. Press the tines firmly against the superficial skin. Withdraw the GREER Pick from the skin. This should not induce bleeding. Discard the used GREER Pick in a biohazard container.

A small imprint of the device should remain at the test site, indicating that a correct amount of pressure was applied (Figure 13). Repeat these steps with remaining extracts and control solutions until testing is complete. Following the instructions should produce uniform skin tests without inducing bleeding.

### Storage and Disposal

Once skin testing is completed, place a new GREER Pick into the GREER Pick Well for each allergenic extract or control solution used. Store the covered GREER® Pick® Tray™ at 2 to 8°C until the next use.

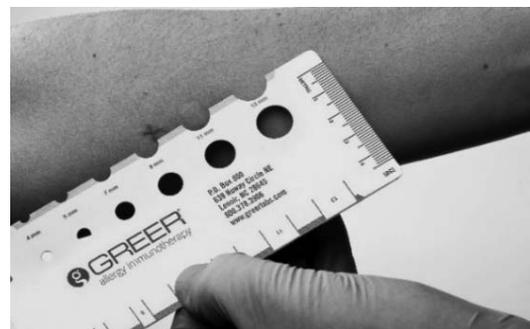
GREER Pick is a disposable, single-use device and should be discarded after one use in a biohazard container in accordance with OSHA standards to prevent the transfer of bloodborne diseases. Do not reuse GREER Picks.

GREER Pick Wells should be replaced regularly. If a used GREER Pick is mistakenly placed back into a well, discard the entire well and its contents in a biohazard container and prepare a new well for the next use.

### Reading Skin Test Reactions

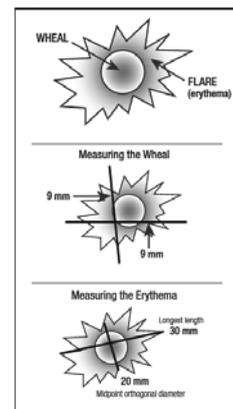
Allergic individuals may differ widely in their response to allergenic extracts or control solutions. Evaluate the results of allergy skin tests in relation to both the positive and negative control tests (Figure 14). The patient history, current allergen exposure, and any recent use of interfering drugs, such as antihistamines or beta blockers, should be considered when evaluating the patient's response.

Figure 14



Test sites should be read approximately 15 to 20 minutes after administration of the test allergenic extract or control solution.<sup>3</sup> The wheal (edema) and flare (erythema) reactions should be measured and recorded (Figure 15).

Figure 15



A skin test wheal response less than 3 mm larger than the size of the negative control test done at the same time is considered a negative reaction. A skin test wheal response at least 3 mm larger than the negative control done at the same time is considered a positive reaction.<sup>3</sup> Individual patient reactivity can vary with time, allergen potency, drug therapy, and/or immunotherapy, as well as testing technique. The most reliable method of recording a skin test reaction is to measure the largest diameter of both wheal and erythema, as well as the diameter of the reaction perpendicular to the largest reaction diameter. The results are used to calculate the approximate area for both wheal and erythema. While some correlation exists between the size of the skin test reaction and the degree of sensitivity, other factors should be considered in the diagnosis of allergy to specific allergens.

Various methods are in use for grading skin test reactions to allergens. Grade the response as defined in the applicable allergenic extract prescribing information.

### HOW SUPPLIED

Item # GP-1C	GREER Pick Single-Site Skin Testing Devices (case), 2,100 GREER Pick devices (50 sterile pouches of 42)
Item # GW-2	GREER Pick Well 1 sterile pouch containing 24 wells
Item #GY-40	40-Well GREER Pick Tray with lid
Item #GY-5	60-Well GREER Pick Tray
Item #GY-LD	60-Well GREER Pick Tray Lid
Item# GP-10	40-Well GREER Pick Evaluation Package 1 40-well GREER Pick Tray with lid 1 set of 40 labels 420 GREER Pick devices (10 sterile pouches of 42) 48 GREER Pick Wells (2 sterile pouches of 24) 1 GREER Pick skin testing instructional DVD 1 skin reaction guide 1 GREER Pick sample skin testing sheet 1 GREER Pick practical guide

Item# GP-11	60-Well GREER Pick Evaluation Package 1 60-well GREER Pick Tray 630 GREER Pick devices (15 sterile pouches of 42) 72 GREER Pick Wells (3 sterile pouches of 24) 1 GREER Pick skin testing instructional DVD 1 Skin Reaction Guide 1 GREER Pick sample skin testing sheet 1 GREER Pick practical guide
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### REFERENCES

1. U.S. Department of Labor Occupational Safety and Health Administration. Potential for occupational exposure to bloodborne pathogens from cleaning needles used in allergy testing procedures. Available at: [https://www.osha.gov/dts/hib/hib\\_data/hib19950921.html](https://www.osha.gov/dts/hib/hib_data/hib19950921.html) Published September 21, 1995. Accessed February 03, 2016.
2. Data on File, Evaluation of Allergenic Extract Consumption for the GREER Pick and GREER Pick Well Skin Test Device Components. GREER Laboratories, Inc. June 10, 2004.
3. Bernstein IL, Li JT, Bernstein DI, et al. Allergy diagnostic testing: an updated practice parameter. *Ann Allergy Asthma Immunol.* March 2008;100 (Suppl 3):S1-S148.

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Rev 02/2016



## Single-Site Allergy Skin Test System Directions for Use

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