



Source Materials  
Products and Services

Effective 2010



 **GREER**<sup>®</sup>  
allergy immunotherapy







# Contents

04	Ordering Information
05	Mites
05	Epithelia, Hair, Feathers and Dander
06	Pollen
09	Fungi and Smuts
10	Venoms
11	Foods
13	Insects
13	Dust
14	Miscellaneous
14	Custom Products
14	Services



## Ordering Information

### Ordering

For the best possible service, specify the account number, item number, raw material, and/or product name as shown in the catalog.

---

### Minimum Order

A 5 gram minimum for raw material is required.

---

### Shipping

Source materials are shipped via UPS or Federal Express, unless otherwise specified.

---

### Terms

Net 30 days from date of invoice. F.O.B. Lenoir, NC; shipping and handling charges are pre-paid and added to the invoice unless arrangements are made in advance. All prices are in US dollars. We accept payment via MasterCard®, Visa®, and American Express®. Contact your source materials Customer Service Representative for further information. **All prices are subject to change without notice.**

---

### Returns

Please contact a GREER® Customer Service Representative, at **800.378.3907** or 828.759.7859, for *prior approval* of all product returns. Any shipping error must be reported within 7 days of receipt of the order. A Return Goods Authorization Number must accompany all product returns to GREER within 10 days of the return notification.

Return transportation charges are assumed by the customer, except when due to a shipping error. Authorized returns must be adequately packaged and should be insured. We cannot be responsible for loss or damage in return transit. GREER reserves the right to inspect all returns before issuing credit. Credit is not issued for duplications resulting from customer errors in ordering.

---

### Telephone and Fax Orders

To order by telephone, call Customer Service toll free: **800.378.3907** or call **828.759.7859**

To order by fax, dial **828.754.0616**

E-mail: [sourcematerials@greerlabs.com](mailto:sourcematerials@greerlabs.com)

Customer Service is available Monday through Friday 8 AM to 5 PM Eastern Time.

---

### Can't Find What You Want?

Please contact us for special items you need but are not found in this catalog.

# Source Materials

## Mites

- House dust mites are grown under controlled conditions to ensure consistency.
- Identity of mite source materials is verified by our scientists.
- Source material can be prepared to meet customers' specifications in terms of purity.

Item #	
B72	<b>Mite, Food/Storage</b> <i>Acarus siro</i>
B71	<b>Mite, Food/Storage</b> <i>Lepidoglyphus destructor</i>
B73	<b>Mite, Food/Storage</b> <i>Tyrophagus putrescentiae</i>
B63	<b>Mite, House Dust</b> <i>Blomia tropicalis</i>
B83	<b>Mite, House Dust</b> <i>Dermatophagoides farinae</i>
B84	<b>Mite, House Dust</b> <i>Dermatophagoides pteronyssinus</i>
B65	<b>Mite, House Dust</b> <i>Euroglyphus maynei</i>
B56	<b>Mite, House Dust</b> <i>Glycyphagus domesticus</i>
B59	<b>Mite, Storage</b> <i>Chortoglyphus arcuatus</i>

## Epithelia, Hair, and Feathers

- Our updated technology enables us to produce and stock large quantities of dog, cat, and many other animals' dander and epithelia\*.
- Epithelia and dander are supplied acetone defatted and milled to facilitate extraction of allergen components.
- Feathers are milled to aid in the extraction process.
- Animal hair may be purchased without further processing.
- All epithelial materials are collected from animals certified to be free from communicable diseases.

\*Epithelia contain both hair and the outer epidermal layer of skin.

Item #	
E2	<b>Canary Feathers</b> <i>Serinus canaria</i>
E3	<b>Cat Epithelia</b> <i>Felis catus (domesticus)</i>
E66	<b>Cat Hair</b> <i>Felis catus (domesticus)</i>
E4	<b>Cattle Epithelia</b> <i>Bos taurus</i>
E77	<b>Chicken Feathers</b> <i>Gallus gallus (domesticus)</i>
E7	<b>Dog Epithelia, Mixed-Breed</b> <i>Canis familiaris</i>

## Epithelia, Hair, and Feathers

Item #	
E46	<b>Dog Hair</b> <i>Canis familiaris</i>
E79	<b>Duck Feathers</b> <i>Anas platyrhynchos</i>
E50	<b>Gerbil Epithelia</b> <i>Meriones unguiculatus</i>
E11	<b>Goat Epithelia</b> <i>Capra hircus</i>
E78	<b>Goose Feathers</b> <i>Anser domesticus</i>
E14	<b>Guinea Pig Epithelia</b> <i>Cavia porcellus (cobaya)</i>
E44	<b>Hamster Epithelia</b> <i>Mesocricetus auratus</i>
E15	<b>Hog Epithelia</b> <i>Sus scrofa</i>
E17	<b>Horse Epithelia</b> <i>Equus caballus</i>
E20	<b>Mouse Epithelia</b> <i>Mus musculus</i>
E22	<b>Parakeet Feathers</b> <i>Psittacidae</i>
E23	<b>Pigeon Feathers</b> <i>Patagioenas fasciata</i>
E24	<b>Rabbit Epithelia</b> <i>Oryctolagus cuniculus</i>
E25	<b>Rat Epithelia</b> <i>Rattus norvegicus</i>
E68	<b>Wool, Sheep</b> <i>Ovis aries</i>

## Dander

Item #	
E63	<b>Cat Dander/Antigen</b> <i>Felis catus (domesticus)</i>
E64	<b>Dog Dander, Mixed-Breed</b> <i>Canis familiaris</i>
E16	<b>Horse Dander</b> <i>Equus caballus</i>
E32	<b>Poodle Dander</b> <i>Canis familiaris</i>
E40	<b>Specific Breed Mixed Dog Dander</b> <i>Canis familiaris</i>

## Pollen

- We offer a wide range of grass, tree, weed, and flower pollen.
- We have a worldwide network of experienced collectors to ensure a diverse supply of pollen.
- Experienced scientists ensure the identity and purity of all materials through microscopic identification.
- GREER® pollen meets or exceeds industry standards in regard to identity and purity.

## Grasses

Item #	
231	<b>Bahia</b> <i>Paspalum notatum</i>
2	<b>Bermuda</b> <i>Cynodon dactylon</i>
8	<b>Brome, Smooth</b> <i>Bromus inermis</i>
9	<b>Canary</b> <i>Phalaris arundinacea</i>
149	<b>Corn</b> <i>Zea mays</i>
11	<b>Couch/Quack</b> <i>Elymus repens</i>
15	<b>Johnson</b> <i>Sorghum halepense</i>
16	<b>Kentucky Blue</b> <i>Poa pratensis</i>
14	<b>Meadow Fescue</b> <i>Lolium pratensis</i>
21	<b>Oat, Cultivated</b> <i>Avena sativa</i>
20	<b>Orchard</b> <i>Dactylis glomerata</i>
22	<b>Red Top</b> <i>Agrostis gigantea (alba)</i>
23	<b>Rye, Cultivated</b> <i>Secale cereale</i>
264	<b>Rye, Giant Wild</b> <i>Leymus (Elymus) condensatus</i>
25	<b>Rye, Italian</b> <i>Lolium perenne ssp. multiflorum</i>
24	<b>Rye, Perennial</b> <i>Lolium perenne</i>
27	<b>Sweet Vernal</b> <i>Anthoxanthum odoratum</i>
28	<b>Timothy</b> <i>Phleum pratense</i>
29	<b>Velvet</b> <i>Holcus lanatus</i>
31	<b>Wheat, Cultivated</b> <i>Triticum aestivum</i>
186	<b>Wheatgrass, Western</b> <i>Pascopyrum smithii</i>

## Pollen

### Weeds

Item #	
202	<b>Allscale</b> <i>Atriplex polycarpa</i>
293	<b>Baccharis</b> <i>Baccharis halimifolia</i>
291	<b>Baccharis</b> <i>Baccharis sarothroides</i>
213	<b>Burrobrush</b> <i>Hymenoclea salsola</i>
32	<b>Careless Weed</b> <i>Amaranthus hybridus</i>
33	<b>Cocklebur</b> <i>Xanthium strumarium (commune)</i>
35	<b>Dock, Yellow</b> <i>Rumex crispus</i>
184	<b>Dog Fennel</b> <i>Eupatorium capillifolium</i>
37	<b>Goldenrod</b> <i>Solidago spp.</i>
40	<b>Hemp, Western Water</b> <i>Amaranthus tuberculatus (Acnida tamariscina)</i>
212	<b>Iodine Bush</b> <i>Allenrolfea occidentalis</i>
42	<b>Kochia/Firebush</b> <i>Kochia scoparia</i>
43	<b>Lamb's Quarter</b> <i>Chenopodium album</i>
44	<b>Marsh Elder, Burweed</b> <i>Iva xanthifolia</i>
201	<b>Marsh Elder, Narrowleaf</b> <i>Iva angustifolia</i>
45	<b>Marsh Elder, Rough</b> <i>Iva annua (ciliata)</i>
47	<b>Mugwort, Common</b> <i>Artemisia vulgaris</i>
48	<b>Mugwort, Darkleaved</b> <i>Artemisia ludoviciana</i>
36	<b>Nettle</b> <i>Urtica dioica</i>
49	<b>Palmer's Amaranth</b> <i>Amaranthus palmeri</i>
52	<b>Pigweed, Redroot/Rough</b> <i>Amaranthus retroflexus</i>
53	<b>Pigweed, Spiny</b> <i>Amaranthus spinosus</i>
54	<b>Plantain, English</b> <i>Plantago lanceolata</i>
240	<b>Quailbrush</b> <i>Atriplex lentiformis</i>
238	<b>Rabbit Bush</b> <i>Ambrosia deltoidea</i>
272	<b>Ragweed, Desert</b> <i>Ambrosia dumosa</i>
185	<b>Ragweed, False</b> <i>Ambrosia acanthicarpa</i>
55	<b>Ragweed, Giant</b> <i>Ambrosia trifida</i>

## Pollen

### Weeds

Item #	
56	<b>Ragweed, Short</b> <i>Ambrosia artemisiifolia</i>
50	<b>Ragweed, Slender</b> <i>Ambrosia confertiflora</i>
57	<b>Ragweed, Southern</b> <i>Ambrosia bidentata</i>
58	<b>Ragweed, Western</b> <i>Ambrosia psilostachya</i>
59	<b>Russian Thistle</b> <i>Salsola kali (pestifer)</i>
191	<b>Sage, Pasture</b> <i>Artemisia frigida</i>
61	<b>Sagebrush, Common</b> <i>Artemisia tridentata</i>
199	<b>Saltbush, Annual</b> <i>Atriplex wrightii</i>
64	<b>Sorrel, Red/Sheep</b> <i>Rumex acetosella</i>
206	<b>Wingscale</b> <i>Atriplex canescens</i>

### Trees

Item #	
172	<b>Acacia</b> <i>Acacia spp.</i>
523	<b>Alder, European</b> <i>Alnus glutinosa</i>
217	<b>Alder, Red</b> <i>Alnus rubra</i>
69	<b>Alder, Tag</b> <i>Alnus serrulata</i>
438	<b>Alder, White</b> <i>Alnus rhombifolia</i>
204	<b>Ash, Arizona</b> <i>Fraxinus velutina</i>
73	<b>Ash, Oregon</b> <i>Fraxinus latifolia</i>
72	<b>Ash, Red/Green</b> <i>Fraxinus pennsylvanica</i>
74	<b>Ash, White</b> <i>Fraxinus americana</i>
75	<b>Aspen</b> <i>Populus tremuloides</i>
173	<b>Bayberry</b> <i>Morella cerifera</i>
76	<b>Beech, American</b> <i>Fagus grandifolia (americana)</i>
207	<b>Beefwood/Australian Pine</b> <i>Casuarina equisetifolia</i>
81	<b>Birch, Black/Sweet</b> <i>Betula lenta</i>
527	<b>Birch, European White</b> <i>Betula pendula</i>

## Pollen

### Trees

Item #	
79	<b>Birch, Red/River</b> <i>Betula nigra</i>
426	<b>Birch, Spring</b> <i>Betula occidentalis (fontinalis)</i>
80	<b>Birch, White</b> <i>Betula populifolia</i>
82	<b>Box Elder</b> <i>Acer negundo</i>
290	<b>Cedar, Japanese</b> <i>Cryptomeria japonica</i>
83	<b>Cedar, Mountain</b> <i>Juniperus ashei (sabinoidea)</i>
84	<b>Cedar, Red</b> <i>Juniperus virginiana</i>
242	<b>Cedar, Salt</b> <i>Tamarix gallica</i>
444	<b>Cottonwood, Black</b> <i>Populus trichocarpa</i>
87	<b>Cottonwood, Eastern</b> <i>Populus deltoides</i>
255	<b>Cottonwood, Fremont</b> <i>Populus fremontii</i>
88	<b>Cottonwood, Western</b> <i>Populus deltoides ssp. monilifera</i>
244	<b>Cypress, Arizona</b> <i>Cupressus arizonica</i>
193	<b>Cypress, Bald</b> <i>Taxodium distichum</i>
241	<b>Cypress, Italian</b> <i>Cupressus sempervirens</i>
92	<b>Elm, American</b> <i>Ulmus americana</i>
179	<b>Elm, Cedar</b> <i>Ulmus crassifolia</i>
93	<b>Elm, Siberian</b> <i>Ulmus pumila</i>
196	<b>Eucalyptus</b> <i>Eucalyptus globulus</i>
98	<b>Hackberry</b> <i>Celtis occidentalis</i>
99	<b>Hazelnut</b> <i>Corylus americana</i>
97	<b>Hazelnut, European</b> <i>Corylus avellana</i>
101	<b>Hickory, Pignut</b> <i>Carya glabra</i>
103	<b>Hickory, Shagbark</b> <i>Carya ovata</i>
102	<b>Hickory, Shellbark</b> <i>Carya laciniosa</i>
104	<b>Hickory, White</b> <i>Carya alba</i>
243	<b>Juniper, Oneseed</b> <i>Juniperus monosperma</i>

## Pollen

### Trees *Continued*

Item #	
275	<b>Juniper, Pinchot</b> <i>Juniperus pinchotii</i>
280	<b>Juniper, Rocky Mountain</b> <i>Juniperus scopulorum</i>
233	<b>Juniper, Utah</b> <i>Juniperus osteosperma</i>
254	<b>Juniper, Western</b> <i>Juniperus occidentalis</i>
169	<b>Locust Blossom, Black</b> <i>Robinia pseudoacacia</i>
257	<b>Mango Blossom</b> <i>Mangifera indica</i>
108	<b>Maple, Red</b> <i>Acer rubrum</i>
109	<b>Maple, Silver</b> <i>Acer saccharinum</i>
110	<b>Maple, Sugar</b> <i>Acer saccharum</i>
221	<b>Melaleuca</b> <i>Melaleuca quinquenervia (leucadendron)</i>
111	<b>Mesquite</b> <i>Prosopis velutina</i>
113	<b>Mulberry, Paper</b> <i>Broussonetia papyrifera</i>
112	<b>Mulberry, Red</b> <i>Morus rubra</i>
194	<b>Mulberry, White</b> <i>Morus alba</i>
256	<b>Oak, Arizona/Gambel</b> <i>Quercus gambelii</i>
114	<b>Oak, Black</b> <i>Quercus velutina</i>
115	<b>Oak, Bur</b> <i>Quercus macrocarpa</i>
284	<b>Oak, California Black</b> <i>Quercus kelloggii</i>
195	<b>Oak, California Live</b> <i>Quercus agrifolia</i>
455	<b>Oak, California White/Valley</b> <i>Quercus lobata</i>
526	<b>Oak, English</b> <i>Quercus robur</i>
528	<b>Oak, Holly</b> <i>Quercus ilex</i>
119	<b>Oak, Post</b> <i>Quercus stellata</i>
120	<b>Oak, Red</b> <i>Quercus rubra</i>
116	<b>Oak, Virginia Live</b> <i>Quercus virginiana</i>
198	<b>Oak, Water</b> <i>Quercus nigra</i>
285	<b>Oak, Western White/Garry</b> <i>Quercus garryana</i>
122	<b>Oak, White</b> <i>Quercus alba</i>

## Pollen

### Trees

Item #	
123	<b>Olive</b> <i>Olea europaea</i>
479	<b>Olive, Russian</b> <i>Elaeagnus angustifolia</i>
247	<b>Orange Pollen</b> <i>Citrus sinensis</i>
216	<b>Palm, Queen</b> <i>Arecastrum romanzoffianum (Cocos plumosa)</i>
127	<b>Pecan</b> <i>Carya illinoensis</i>
292	<b>Pepper Tree</b> <i>Schinus molle</i>
294	<b>Pepper Tree/Florida Holly</b> <i>Schinus terebinthifolius</i>
130	<b>Pine, Eastern White</b> <i>Pinus strobus</i>
132	<b>Pine, Loblolly</b> <i>Pinus taeda</i>
129	<b>Pine, Longleaf</b> <i>Pinus palustris</i>
478	<b>Pine, Ponderosa</b> <i>Pinus ponderosa</i>
171	<b>Pine, Virginia</b> <i>Pinus virginiana</i>
480	<b>Pine, Western White</b> <i>Pinus monticola</i>
131	<b>Pine, Yellow</b> <i>Pinus echinata</i>
177	<b>Poplar, Lombardy</b> <i>Populus nigra</i>
134	<b>Poplar, White</b> <i>Populus alba</i>
135	<b>Privet</b> <i>Ligustrum vulgare</i>
137	<b>Sweet Gum</b> <i>Liquidambar styraciflua</i>
138	<b>Sycamore, Eastern</b> <i>Platanus occidentalis</i>
525	<b>Sycamore, Oriental</b> <i>Platanus orientalis</i>
228	<b>Sycamore, Western</b> <i>Platanus racemosa</i>
468	<b>Sycamore/London Plane</b> <i>Platanus hybrida</i>
140	<b>Walnut, Black</b> <i>Juglans nigra</i>
222	<b>Walnut, California Black</b> <i>Juglans californica</i>
210	<b>Walnut, English</b> <i>Juglans regia</i>
483	<b>Willow, Arroyo</b> <i>Salix lasiolepis</i>
142	<b>Willow, Black</b> <i>Salix nigra</i>

## Pollen

### Cultivated Plants and Flowers

Item #	
145	<b>Alfalfa</b> <i>Medicago sativa</i>
223	<b>Castor Bean</b> <i>Ricinus communis</i>
146	<b>Clover, Red</b> <i>Trifolium pratense</i>
158	<b>Daisy, Ox-Eye</b> <i>Leucanthemum vulgare</i>
159	<b>Dandelion</b> <i>Taraxacum officinale</i>
174	<b>Mustard</b> <i>Brassica</i> spp.
63	<b>Sugar Beet</b> <i>Beta vulgaris</i>
164	<b>Sunflower</b> <i>Helianthus annuus</i>

## Fungi and Smuts

- We offer a wide range of fungi, which are grown under cGMPs.
- We maintain and control seed cultures to help assure lot-to-lot consistency.
- Experienced scientist ensures identity and purity of each lot.
- Source material can be prepared to meet customers' specifications in terms of cellular and culture filtrate.
- Processes render the products essentially nonviable.

### Fungi

Item #	
My6	<b>Acremonium strictum</b> <i>Cephalosporium acremonium</i>
My1	<b>Alternaria alternata</b> <i>Alternaria tenuis</i>
My4	<b>Aspergillus amstelodami</b> <i>Aspergillus glaucus</i>
My2	<b>Aspergillus flavus</b>
My3	<b>Aspergillus fumigatus</b>
My35	<b>Aspergillus nidulans</b>
My5	<b>Aspergillus niger</b>
My53	<b>Aspergillus terreus</b>
My105	<b>Aspergillus versicolor</b>
My21	<b>Aureobasidium pullulans</b> <i>Pullularia pullulans</i>

## Fungi and Smuts

### Fungi

Item #	
My12	<b>Bipolaris sorokiniana</b> <i>Drechslera sorokiniana, Helminthosporium sativum</i>
My30	<b>Botrytis cinerea</b>
My15	<b>Candida albicans</b>
My8	<b>Chaetomium globosum</b>
My9	<b>Cladosporium herbarum</b>
My13	<b>Cladosporium sphaerospermum</b> <i>Hormodendrum hordei</i>
My45	<b>Drechslera spicifera</b> <i>Curvularia spicifera</i>
My29	<b>Epicoccum nigrum</b> <i>Epicoccum purpurascens</i>
My10	<b>Epidermophyton floccosum</b>
My11	<b>Fusarium moniliforme</b>
My48	<b>Fusarium solani</b>
My63	<b>Geotrichum candidum</b> <i>Oospora lactis</i>
My41	<b>Gliocladium viride</b> <i>Gliocladium deliquescens</i>
My40	<b>Helminthosporium solani</b> <i>Spondylocladium atrovirens</i>
My14	<b>Microsporium canis</b> <i>Microsporium lanosum</i>
My52	<b>Mucor circinelloides f. circinelloides</b> <i>Mucor mucedo</i>
My68	<b>Mucor circinelloides f. lusitanicus</b> <i>Mucor racemosus</i>
My27	<b>Mucor plumbeus</b>
My44	<b>Mycogone pernicioso</b>
My16	<b>Neurospora intermedia</b> <i>Neurospora sitophila, Monilia sitophila</i>
My43	<b>Nigrospora oryzae</b>
My34	<b>Paecilomyces variotii</b>
My86	<b>Penicillium brevi-compactum</b>
My17	<b>Penicillium camembertii</b>
My18	<b>Penicillium chrysogenum</b>
My28	<b>Penicillium digitatum</b>
My85	<b>Penicillium expansum</b>
My19	<b>Penicillium notatum</b>

## Fungi and Smuts

### Fungi *Continued*

Item #	
My42	<i>Penicillium roquefortii</i>
My39	<i>Phoma betae</i>
My76	<i>Phoma herbarum</i> <i>Phoma pigmentivora</i>
My22	<i>Rhizopus oryzae</i> <i>Rhizopus arrhizus</i>
My23	<i>Rhizopus stolonifer</i> <i>Rhizopus nigricans</i>
My49	<i>Rhodotorula mucilaginosa</i> <i>Rhodotorula rubra</i> var. <i>mucilaginosa</i>
My67	<i>Saccharomyces cerevisiae</i>
My88	<i>Serpula lacrymans</i> <i>Merulius lacrymans</i>
My75	<i>Setosphaeria rostrata</i> <i>Exserohilum rostratum</i> , <i>Helminthosporium halodes</i>
My66	<i>Stemphylium botryosum</i>
My33	<i>Stemphylium solani</i>
My24	<i>Trichoderma harzianum</i> <i>Trichoderma viride</i>
My26	<i>Trichophyton mentagrophytes</i> <i>Trichophyton interdigitale</i>
My50	<i>Trichophyton rubrum</i>
My7	<i>Tricothecium roseum</i> <i>Cephalothecium roseum</i>



## Fungi and Smuts

### Smuts

Item #	
S1	<b>Barley Smut</b> <i>Ustilago nuda</i>
S2	<b>Bermuda Grass Smut</b> <i>Ustilago cynodontis</i>
S3	<b>Corn Smut</b> <i>Ustilago maydis</i>
S4	<b>Johnson Grass Smut</b> <i>Sporisorium cruentum</i>
S5	<b>Oat Smut</b> <i>Ustilago avenae</i>
S6	<b>Wheat Smut</b> <i>Ustilago tritici</i>

## Venoms

- Our extensive network of collectors ensures a diverse supply of hymenopteran species.
- Identity and purity are verified by our scientists.
- The products are formulated to contain clinically relevant species and are lyophilized to ensure stability and labeled potency.
- Consistency of product quality and potency is controlled by laboratory tests for protein, hyaluronidase and phospholipase activity, and comparison to in-house reference preparations.

Item #	
V16	<b>European Hornet</b> <i>Vespa crabro</i>
V15	<b>Honey Bee</b> <i>Apis mellifera</i>
V89	<b>Mixed Hornet</b> <i>Dolichovespula</i> spp.
V90	<b>Mixed Paper Wasp</b> <i>Polistes</i> spp.
V88	<b>Mixed Yellow Jacket</b> <i>Vespula</i> spp.
V8	<b>White (Bald)-Faced Hornet</b> <i>Dolichovespula maculata</i>
V7	<b>Yellow Hornet</b> <i>Dolichovespula arenaria</i>

## Foods

- GREER® offers a wide range of food source materials.
- Fruits, nuts, vegetables, eggs, and dairy products are processed fresh from grocery warehouses to ensure food safety and quality.
- Food raw materials are defatted.
- Meats, fish, shellfish, and bivalves are processed fresh or fresh/frozen (with the exception of crab) from vendors that operate under USDA or FDA regulations.

## Plant Foods

Item #	
F48	<b>Apple</b> <i>Malus pumila</i>
F49	<b>Apricot</b> <i>Prunus armeniaca</i>
F55	<b>Banana</b> <i>Musa paradisiaca</i> var. <i>paradisiaca</i>
F56	<b>Barley</b> <i>Hordeum vulgare</i>
F59	<b>Bean, Lima</b> <i>Phaseolus lunatus</i>
F295	<b>Bean, Navy</b> <i>Phaseolus vulgaris</i>
F61	<b>Bean, Pinto</b> <i>Phaseolus</i> sp.
F62	<b>Bean, Red Kidney</b> <i>Phaseolus</i> sp.
F63	<b>Bean, String/Green</b> <i>Phaseolus vulgaris</i>
F69	<b>Blackberry</b> <i>Rubus allegheniensis</i>
F70	<b>Blueberry</b> <i>Vaccinium</i> spp.
F73	<b>Broccoli</b> <i>Brassica oleracea</i> var. <i>botrytis</i>
F75	<b>Buckwheat</b> <i>Fagopyrum esculentum</i>
F76	<b>Cabbage</b> <i>Brassica oleracea</i> var. <i>capitata</i>
F93	<b>Cacao Bean/Chocolate Bean</b> <i>Theobroma cacao</i>
F79	<b>Cantaloupe</b> <i>Cucumis melo</i>
F82	<b>Carrot</b> <i>Daucus carota</i>
F87	<b>Cauliflower</b> <i>Brassica oleracea</i> var. <i>botrytis</i>
F88	<b>Celery</b> <i>Apium graveolens</i> var. <i>dulce</i>
F90	<b>Cherry</b> <i>Prunus</i> sp.
F95	<b>Cinnamon</b> <i>Cinnamomum verum</i>
F99	<b>Coffee</b> <i>Coffea arabica</i>
F102	<b>Corn</b> <i>Zea mays</i>
F108	<b>Cranberry</b> <i>Vaccinium macrocarpon</i>

## Foods

### Plant Foods

Item #	
F109	<b>Cucumber</b> <i>Cucumis sativus</i>
F121	<b>Garlic</b> <i>Allium sativum</i>
F122	<b>Ginger</b> <i>Zingiber officinale</i>
F125	<b>Grape</b> <i>Vitis</i> sp.
F128	<b>Grapefruit</b> <i>Citrus x paradisi</i>
F132	<b>Hops</b> <i>Humulus lupulus</i>
F139	<b>Lemon</b> <i>Citrus limon</i>
F142	<b>Lettuce</b> <i>Lactuca sativa</i>
F148	<b>Malt</b> <i>Hordeum vulgare</i>
F150	<b>Mushroom</b> <i>Agaricus campestris</i> ( <i>bisporus</i> )
F297	<b>Mustard</b> <i>Brassica</i> sp.
F153	<b>Nutmeg</b> <i>Myristica fragrans</i>
F154	<b>Oat</b> <i>Avena sativa</i>
F156	<b>Olive, Green</b> <i>Olea europaea</i>
F158	<b>Onion</b> <i>Allium cepa</i> var. <i>cepa</i>
F159	<b>Orange</b> <i>Citrus sinensis</i>
F167	<b>Pea, Black-eyed</b> <i>Vigna unguiculata</i>
F169	<b>Pea, Green (English)</b> <i>Pisum sativum</i>
F170	<b>Peach</b> <i>Prunus persica</i>
F171	<b>Peanut</b> <i>Arachis hypogaea</i>
F172	<b>Pear</b> <i>Pyrus communis</i>
F175	<b>Pepper, Black</b> <i>Piper nigrum</i>
F177	<b>Pepper, Green</b> <i>Capsicum annuum</i> var. <i>annuum</i>
F181	<b>Pineapple</b> <i>Ananas comosus</i>
F190	<b>Potato, Sweet</b> <i>Ipomoea batatas</i>
F191	<b>Potato, White</b> <i>Solanum tuberosum</i>
F198	<b>Raspberry</b> <i>Rubus idaeus</i> var. <i>idaeus</i>
F200	<b>Rice</b> <i>Oryza sativa</i>

## Foods

### Plant Foods *Continued*

Item #	
F204	<b>Rye</b> <i>Secale cereale</i>
F208	<b>Sesame Seed</b> <i>Sesamum orientale (indicum)</i>
F209	<b>Soybean</b> <i>Glycine max</i>
F211	<b>Spinach</b> <i>Spinacia oleracea</i>
F212	<b>Squash, Yellow</b> <i>Cucurbita pepo var. melopepo</i>
F216	<b>Strawberry</b> <i>Fragaria spp.</i>
F225	<b>Tomato</b> <i>Solanum lycoperscium var. lycopersicum</i>
F227	<b>Turnip</b> <i>Brassica rapa var. rapa</i>
F228	<b>Vanilla Bean</b> <i>Vanilla planifolia</i>
F232	<b>Watermelon</b> <i>Citrullus lanatus var. lanatus</i>
F235	<b>Wheat, Whole</b> <i>Triticum aestivum</i>

### Fish and Shellfish

Item #	
F4	<b>Bass, Black</b> <i>Micropterus spp.</i>
F8	<b>Catfish</b> <i>Ictalurus spp.</i>
F10	<b>Clam</b> <i>Mercenaria spp.</i>
F11	<b>Codfish</b> <i>Gadus spp.</i>
F12	<b>Crab</b> <i>Callinectes spp.</i>
F16	<b>Flounder</b> <i>Platichthys spp.</i>
F18	<b>Halibut</b> <i>Pleuronctidae</i>
F20	<b>Lobster</b> <i>Homarus americanus</i>
F21	<b>Mackerel</b> <i>Scomberomorus spp.</i>
F23	<b>Oyster</b> <i>Crassostrea spp.</i>
F24	<b>Perch</b> <i>Scorpaenidae</i>
F30	<b>Salmon</b> <i>Salmo salar</i>
F19	<b>Sardine</b> <i>Clupeiformes</i>
F32	<b>Scallop</b> <i>Pecten spp.</i>

## Foods

### Fish and Shellfish

Item #	
F34	<b>Shrimp</b> <i>Penacidae</i>
F40	<b>Trout, Lake</b> <i>Oncorhynchus mykiss</i>
F41	<b>Tuna Fish</b> <i>Thunnus spp.</i>

### Animal Foods

Item #	
F241	<b>Beef</b> <i>Bos taurus</i>
F251	<b>Lamb</b> <i>Ovis aries</i>
F258	<b>Pork</b> <i>Sus scrofa</i>

### Poultry Products

Item #	
F265	<b>Chicken Meat</b> <i>Gallus gallus</i>
F266	<b>Duck</b> <i>Anas spp.</i>
F272	<b>Egg White, Chicken</b> <i>Gallus gallus</i>
F271	<b>Egg Whole, Chicken</b> <i>Gallus gallus</i>
F273	<b>Egg Yolk, Chicken</b> <i>Gallus gallus</i>
F346	<b>Turkey Meat</b> <i>Meleagris gallopavo</i>

### Dairy Products

Item #	
F282	<b>Casein, Bovine</b> <i>Bos taurus</i>
F395	<b>Milk, Bovine</b> <i>Bos taurus</i>
F294	<b>Milk, Goat</b> <i>Capra hircus</i>

## Foods

### Nuts

Item #	
F46	<b>Almond</b> <i>Prunus dulcis</i>
F72	<b>Brazil Nut</b> <i>Bertholletia excelsa</i>
F84	<b>Cashew Nut</b> <i>Anacardium occidentale</i>
F98	<b>Coconut</b> <i>Cocos nucifera</i>
F120	<b>Filbert/Hazelnut</b> <i>Corylus americana</i>
F171	<b>Peanut</b> <i>Arachis hypogaea</i>
F173	<b>Pecan</b> <i>Carya illinoensis</i>
F183	<b>Pistachio</b> <i>Pistacia vera</i>
F229	<b>Walnut, Black</b> <i>Juglans nigra</i>
F230	<b>Walnut, English</b> <i>Juglans regia</i>

## Insects

- Our scientists verify the identity and purity of all insects.
- Field-collected insects are caught live and frozen immediately. Biting insects are laboratory reared to ensure consistent diet and absence of blood meal.
- Cockroaches are grown on a controlled medium to ensure consistency.
- Our extensive network of collectors ensures a diverse supply of species.

Item #	
B31	<b>Ant, Carpenter</b> <i>Camponotus pennsylvanicus</i>
B47	<b>Ant, Fire</b> <i>Solenopsis invicta</i>
B14	<b>Ant, Fire</b> <i>Solenopsis richteri</i>
B26	<b>Cockroach, American</b> <i>Periplaneta americana</i>
B46	<b>Cockroach, German</b> <i>Blattella germanica</i>
B60	<b>Cockroach, Oriental</b> <i>Blatta orientalis</i>
B22	<b>Flea</b> <i>Ctenocephalides canis/C. felis</i>

## Insects

Item #	
B43	<b>Horse Fly</b> <i>Tabanus</i> spp.
B8	<b>House Fly</b> <i>Musca domestica</i>
B12	<b>Mayfly</b> <i>Ephemeroptera</i>
B55	<b>Mosquito</b> Culicidae
B11	<b>Moth</b> Lepidoptera

## Dust

Item #	
D3	<b>Barley Grain Dust</b>
D5	<b>Corn Grain Dust</b>
D9	<b>House Dust</b>
D25	<b>Mattress Dust</b>
D12	<b>Oat Grain Dust</b>
D19	<b>Upholstery Dust</b>
D17	<b>Wheat Grain Dust</b>



## Miscellaneous

We provide a number of inhalants and environmental products.

Item #	
XP10001105	<b>Anisakis</b> <i>Anisakis simplex</i>
H1	<b>Cottonseed</b> <i>Gossypium hirsutum</i>
H2	<b>Flaxseed</b> <i>Linum usitatissimum</i>
H15	<b>Gum, Acacia/Arabic</b> <i>Acacia senegal</i>
H9	<b>Gum, Karaya</b> <i>Sterculia urens</i>
H18	<b>Gum, Tragacanth</b> <i>Astragalus gummifer</i>
H4	<b>Kapok Seed</b> <i>Ceiba pentandra</i>
H5	<b>Orris Root</b> <i>Iris germanica var florentina</i>
H6	<b>Pyrethrum</b> <i>Chrysanthemum cinerariifolium</i>
H7	<b>Silkworm (Cocoon and Pupa)</b> <i>Bombyx mori</i>
H8	<b>Tobacco Leaf</b> <i>Nicotiana tabacum</i>

## Custom Products

GREER® is committed to customer satisfaction. To achieve this goal, we work alongside our customers to provide tailored support on numerous levels, including:

- Customizing raw materials from our product line and manufacturing them to customer-defined specifications under cGMPs.
- Using customer-supplied raw materials and offering custom vialing and lyophilization of customer-supplied products.
- Providing analytical testing for total protein, moisture, and specific allergen content, as well as other tests specified by customers.

Call for a free consultation with your GREER Account Manager or Research and Development Specialist at 800.378.3907 or 828.759.7859.

## Services

In addition to supplying a wide variety of source materials, GREER offers the following services:

### Custom Antibody Service

GREER offers custom antibody production services to meet your specific needs. Various types of rabbit polyclonal antibodies are available at GREER, including those produced to measure the major allergen from short ragweed, Amb a 1.

Two different types of anti-Amb a 1 antibodies are currently available at GREER. One of these antibody preparations is suitable for performing any type of immunochemistry analysis; the other preparation is more suitable for performing ELISAs and Western blots.

### Lyophilized Extracts

Lyophilized extracts are intended for laboratory or further manufacturing use and can be prepared from any of the raw materials listed in our catalog. Examples of some of the more common lyophilized extracts are latex, dust mites, cockroaches, peanut, short ragweed, *Candida albicans*, and pig *Ascaris*. Most extracts are maintained in inventory for immediate shipment. The extracts are prepared without the use of preservatives or buffer salts. These allergens are labeled with Bradford protein and dry weight contents. Additional testing can be provided upon request.

### Analytical Testing

We offer analytical testing for specific allergen content such as Der p 1, Der f 1, Amb a 1, Fel d 1, Can f 1; endotoxin; and other tests specified by our customers. Antigens from our product line may also be manufactured to customer-defined specifications under cGMPs.







 **GREER**<sup>®</sup>  
allergy immunotherapy

**GREER Source Materials**

P.O. Box 800  
639 Nuway Circle NE  
Lenoir, NC 28645  
800.378.3907  
828.759.7859  
[www.greerlabs.com](http://www.greerlabs.com)



**Mixed Sources**  
Product group from well-managed  
forests and other controlled sources  
[www.fsc.org](http://www.fsc.org) Cert no. SGS-COC-005125  
© 1996 Forest Stewardship Council