

STANDARDIZED GRASS POLLEN, FESCUE, MEADOW- standardized grass pollen, fescue, meadow injection, solution
STANDARDIZED GRASS POLLEN, REDTOP- standardized grass pollen, redtop injection, solution
STANDARDIZED GRASS POLLEN, ORCHARD GRASS- standardized grass pollen, orchard grass injection, solution
STANDARDIZED GRASS POLLEN, BERMUDA GRASS- standardized grass pollen, bermuda grass injection, solution
STANDARDIZED GRASS POLLEN, TIMOTHY- standardized grass pollen, timothy injection, solution
STANDARDIZED GRASS POLLEN, SWEET VERNAL GRASS- standardized grass pollen, sweet vernal grass injection, solution
STANDARDIZED GRASS POLLEN, RYEGRASS- standardized grass pollen, ryegrass injection, solution
STANDARDIZED GRASS POLLEN, BLUEGRASS, KENTUCKY JUNE- standardized grass pollen, bluegrass, kentucky june injection, solution
Jubilant HollisterStier LLC

ALLERGENIC EXTRACTS STANDARDIZED GRASS POLLEN (glycerinated)

WARNINGS

This product is intended for use only by licensed medical personnel experienced in administering allergenic extracts and trained to provide immediate emergency treatment in the event of a life-threatening reaction.

Allergenic extracts may potentially elicit a severe life-threatening systemic reaction, rarely resulting in death¹. Therefore, emergency measures and personnel trained in their use must be available immediately in the event of such a reaction. Patients should be instructed to recognize adverse reaction symptoms and cautioned to contact the physician's office if symptoms occur. See ADVERSE REACTION, Section 3, of this insert for information regarding adverse event reporting.

Standardized glycerinated extracts may differ in potency from regular extracts and therefore, are not directly interchangeable with non-standardized extracts, or other manufacturers' products.

Note: BAU/mL Standardized grass pollens are not interchangeable with any other grass pollen products. This product should never be injected intravenously. Patients with cardiovascular diseases or pulmonary diseases such as symptomatic unstable, steroid-dependent asthma, and/or those who are receiving cardiovascular drugs such as beta blockers, may be at higher risk for severe adverse reactions. These patients may also be more refractory to the normal allergy treatment regimen. Patients should be treated only if the benefit of treatment outweighs the risks.¹

Refer also to the CONTRAINDICATIONS, WARNINGS, PRECAUTIONS, ADVERSE REACTIONS and OVERDOSE Sections for further discussion.

DESCRIPTION

The grass pollens available in standardized form are: Bermuda Grass (*Cynodon dactylon*), Orchard Grass (*Dactylis glomerata*), Perennial Ryegrass (*Lolium perenne*), Timothy Grass (*Phleum pratense*), Redtop Grass (*Agrostis alba*), Kentucky Bluegrass (*Poa pratensis*), Meadow Fescue (*Festuca elatior*), and Sweet Vernalgrass (*Anthoxanthum odoratum*). The pollen extracts are intended for subcutaneous injection for immunotherapy; and intradermal and prick or puncture for diagnosis. Pollen extracts are sterile solutions containing the extractables of pollens, 0.5% Sodium Chloride, 0.275% Sodium Bicarbonate, and 50% Glycerin by volume as a preservative. Sterile, diluted Standardized Grass Pollen Extracts available for intradermal testing contain 0.9% sodium chloride, not more than 0.5% glycerin by volume, 0.03% sodium bicarbonate, and 0.4% phenol as a preservative. Source material for the extracts is collected using techniques such as water set or vacuuming. Source material for allergenic extracts contains no more than a total of 1% of detectable foreign materials (99% pollen purity). Note: BAU/mL Standardized grass pollens are not interchangeable with any other grass pollen products.

Product Concentration:

1. Bioequivalent Allergy Units. These allergenic extracts are labeled in Bioequivalent Allergy Units/mL (BAU/mL) based on their comparison (by ELISA Competition) to Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA) Reference Preparations.² The FDA reference extracts have been assigned Bioequivalent Allergy Units based on the CBER ID₅₀EAL method.⁵ Briefly, highly sensitive patients are skin tested to the reference preparation using an intradermal technique employing 3-fold extract dilutions. Depending on the dilution which elicits a summation of erythema diameter of 50mm (D₅₀), Bioequivalent Allergy Units are assigned as follows:

BAU/mL	Intradermal Mean Dilution	D ₅₀
1000,000	1:5,000,000	13-14.9
10,000	1:500,000	11-12.9
1,000	1:50,000	9-10.9

The vial potency of **Mixtures of Standardized Grasses** is calculated by summation of the BAU/mL values of the components of the ingredient list which expresses the potency of each component per mL of the mixture.

2. Concentrate.

a. Concentrate label terminology applies to allergenic extract Custom Mixtures where the individual allergens being combined vary in strength or the designation of strength.

e.g. Concentrate
 50% Short Ragweed 1:20 w/v
 25% Kentucky Bluegrass 100,000 BAU/mL
 25% Std. Mite D. farinae 10,000 AU/mL

Should the physician choose to calculate the actual strength of each component in the "Concentrate" mixture, the following formulation may be used:

Actual Allergen Strength in	Allergen	Allergen in Formulation (by
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Actual Allergen Strength III
Concentrate Mixture

= Manufacturing
Strength

x Allergen III Formulation (by
volume or parts)

b. In the list of components portion of the product label for **Stock Mixtures Containing Standardized Grasses**, the potency of each component is calculated to express the potency of each component per 1 mL of the mixture. Vial potency is expressed as concentrate, or as a volume/volume dilution of concentrate.

CLINICAL PHARMACOLOGY

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The mechanisms by which hyposensitization is achieved are not completely understood. It has been shown that repeated injections of appropriate allergenic extracts will ameliorate the intensity of allergic symptoms upon contact with the allergen.^{6, 7, 8, 9} Clinical studies which address the efficacy of immunotherapy are available. The allergens which have been studied are cat, mite, and some pollen extracts.^{10, 11, 12, 13, 14, 15} IgE antibodies bound to receptors on mast cell membranes are required for the allergic reaction, and their level is probably related to serum IgE concentrations. Immunotherapy has been associated with decreased levels of IgE, and also with increases in allergen specific IgG "blocking" antibody.

The histamine release response of circulating basophils to a specific allergen is reduced in some patients by immunotherapy, but the mechanism of this change is not yet clear. The relationships among changes in blocking antibody, reaginic antibody, and mediator-releasing cells, and successful immunotherapy need study and clarification.

The CBER has evaluated the potency of eight grass pollen extract reference preparations and assigned potency units (BAU/mL) to each.⁵ The CBER clinical results follow in Table 1. Puncture data were obtained using a bifurcated needle.

Table 1

PUNCTURE AND INTRADERMAL DATA WITH CBER GRASS REFERENCES 3

A. Puncture Data with 10,000 BAU/mL Grass Extracts

Reference Pollen	N	Sum of Erythema (mm)		Sum of Wheal (mm)	
		Mean	Range	Mean	Range
Bermuda Grass - <i>Cynodon dactylon</i>	15	90.3	43-123	15.7	7-31
Kentucky Bluegrass (June) - <i>Poa pratensis</i>	15	77.3	47-107	15.9	6-28
Meadow Fescue - <i>Festuca elatior</i>	15	81.1	57-115	11.9	7-22
Orchard Grass - <i>Dactylis glomerata</i>	15	84.3	57-111	14.1	9-19
Perennial Ryegrass - <i>Lolium perenne</i>	15	92.3	73-135	17.5	6-36
Redtop - <i>Agrostis gigantea</i> (alba)	15	77.1	42-98	14.1	8-19
Sweet Vernalgrass - <i>Anthoxanthum odoratum</i>	15	81.2	28-123	15.7	8-30

Timothy - Phleum pratense	15	88.3	91-109	16.9	8-40
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B. Intradermal Dose of CBER Grass References for 50mm Sum of Erythema (BAU₅₀)

Reference Pollen	Mean BAU ₅₀ /mL	Range
Bermuda Grass - Cynodon dactylon	0.02	0.4-0.0003
Kentucky Bluegrass (June) - Poa pratensis	0.02	0.1-0.004
Meadow Fescue - Festuca elatior	0.02	0.9-0.002
Orchard Grass - Dactylis glomerata	0.02	1.9-0.002
Perennial Ryegrass - Lolium Perenne	0.02	0.7-0.002
Redtop - Agrostis gigantea (alba)	0.02	0.8-0.004
Sweet Vernalgrass - Anthoxanthum odoratum	0.02	1.0-0.002
Timothy - Phleum pratense	0.02	0.6-0.002

TABLE 2

RELATIVE POTENCY OF PREVIOUSLY MANUFACTURED AND DISTRIBUTED NON-STANDARDIZED GRASSES TO CBER REFERENCE STANDARDS

Glycerinated (1:20 w/v) and Non-Glycerinated Pollen Extracts (1:10 w/v)

Pollen	# of Jubilant HollisterStier LLC Lots Relative to the CBER Reference*				Calculated BAU/mL Range** (Rounded to the nearest 000)
	# of Lots Tested	Less than	Equal to	Greater Than	
Orchard Grass	20	2	13	5	66,000 - 242,000
Perennial Ryegrass	17	5	12	0	25,000 - 127,000
Sweet Vernalgrass	13	1	12	0	73,000 - 110,000
Kentucky Bluegrass	21	8	12	1	32,000 - 145,000
Redtop	20	5	6	9	13,000 - 402,000
Meadow Fescue	21	0	1	20	128,000 - 948,000
Bermuda Grass	22	3	13	6	6,000 - 28,000
Timothy	19	11	6	2	43,000 - 176,000

*All CBER reference extracts contain 100,000 BAU/mL except Bermuda Grass which contains 10,000 BAU/mL.

**BAU/mL ranges between 69,990 and 143,100 are considered equivalent to the CBER 100,000 BAU/mL Standard, and between 6,990 and 14,310 for the CBER 10,000 BAU/mL Standard when assays are done in triplicate.

INDICATIONS AND USAGE

16, 17, 18, 20

Standardized glycerinated allergenic extracts in potencies of 10,000 BAU/mL and 100,000 BAU/mL are indicated for use in diagnosis and immunotherapy of patients presenting symptoms of allergy (hay fever, rhinitis, etc.) to specific grass pollens. Concentrated extracts must be diluted prior to use in intradermal testing and immunotherapy. The selection of allergenic extracts to be used should be based on a thorough and carefully taken history of hypersensitivity, and confirmed by skin testing. 27, 28 10,000 BAU/mL dose form should be used initially for percutaneous testing. If negative, the 100,000 BAU/mL dose can be used.

The use of mixed or unrelated antigens for skin testing is not recommended since, in the case of a positive reaction, it does not indicate which component of the mix is responsible for the reaction, while, in the case of a negative reaction, it fails to indicate whether the individual antigens at full concentration would give a positive reaction. Utilization of such mixes for compounding a treatment may result, in the former case, in administering unnecessary antigens and, in the latter case, in the omission of a needed allergen.

Allergens to which a patient is extremely sensitive should not be included in treatment mixes with allergens to which there is much less sensitivity, but should be administered separately. This allows individualized and better control of dosage increases, including adjustments in dosage becoming necessary after severe reactions which may occur to the highly reactive allergen. Note: BAU/mL Standardized grass pollens are not interchangeable with any other grass pollen products.

CONTRAINDICATIONS

There are no known absolute contraindications to immunotherapy. See PRECAUTIONS for pregnancy risks.

Patients with cardiovascular diseases or pulmonary diseases such as symptomatic unstable, steroid-dependent asthma, and/or those who are receiving cardiovascular drugs such as beta blockers, may be at higher risk for severe adverse reactions. These patients may also be more refractory to the normal allergy treatment regimen. Patients should be treated only if the benefit of treatment outweighs the risks.¹

Any injections, including immunotherapy, should be avoided in patients with a bleeding tendency.

Since there are differences of opinion concerning the possibility of routine immunizations exacerbating autoimmune diseases, immunotherapy should be given cautiously to patients with autoimmune diseases, and only if the risk from exposure to the allergen is greater than the risk of exacerbating the autoimmune process.

WARNINGS

See WARNINGS at the beginning of this instruction sheet.

Allergenic extract should be temporarily withheld from patients or the dose adjusted downward if any of the following conditions exist: (1) severe symptoms of rhinitis and/or asthma; (2) infection or flu accompanied by fever; or (3) exposure to excessive amounts of clinically relevant allergen prior to a scheduled injection. Do not start

immunotherapy during a period of symptoms due to exposure. Since the individual components of the extract are those to which the patient is allergic, and to which he or she will be exposed, typical allergic symptoms may follow shortly after the injection, particularly when the antigen load from exposure plus the injected antigen exceeds the patient's antigen tolerance. (4) Any evidence of a local or generalized reaction requires a reduction in dosage during the initial stages of immunotherapy, as well as during maintenance therapy.

THE CONCENTRATE SHOULD NOT BE INJECTED AT ANY TIME UNLESS TOLERANCE HAS BEEN ESTABLISHED. DILUTE CONCENTRATED EXTRACTS WITH STERILE ALBUMIN SALINE WITH PHENOL (0.4%) FOR INTRADERMAL TESTING.

INJECTIONS SHOULD NEVER BE GIVEN INTRAVENOUSLY. Subcutaneous injection is recommended. Intracutaneous or intramuscular injections may produce large local reactions or be excessively painful.

AFTER INSERTING NEEDLE SUBCUTANEOUSLY, BUT BEFORE INJECTING, ALWAYS WITHDRAW THE PLUNGER SLIGHTLY. IF BLOOD APPEARS IN THE SYRINGE, CHANGE NEEDLE AND GIVE THE INJECTION IN ANOTHER SITE.

IF CHANGING TO A DIFFERENT LOT OF STANDARDIZED EXTRACT: Even though it is the same formula and concentration, the first dose of the new extract should not exceed 25% to 50% of the last administered dose from the previous extract.

IF THE STANDARDIZED EXTRACT PREVIOUSLY USED WAS FROM ANOTHER MANUFACTURER: Since manufacturing processes and sources of raw materials differ among manufacturers, the interchangeability of extracts from different manufacturers cannot be insured. The starting dose of the standardized glycerinated extract therefore should be greatly decreased even though the extract is the same formula and dilution. Initiate therapy as though patient had not been receiving immunotherapy, or determine initial dose by skin test using serial dilutions of the extract. In highly sensitive individuals, the skin test method may be preferable. See **DOSAGE AND ADMINISTRATION** and **ADVERSE REACTIONS** Sections.

IF A PROLONGED PERIOD OF TIME HAS ELAPSED SINCE THE LAST INJECTION: Patients may lose tolerance for allergen injections during prolonged periods between doses. The duration of tolerance is an individual characteristic and varies from patient to patient. In general, the longer the lapse in the injection schedule, the greater dose reduction required. If the interval since last dose is over four weeks, perform skin tests to determine starting dose.

IF THE PREVIOUS EXTRACT WAS OUTDATED: The dating period for allergenic extracts indicates the time that they can be expected to remain potent under refrigerated storage conditions (2°- 8°C). During the storage of extracts, even under ideal conditions, some loss of potency occurs. For this reason, extracts should not be used beyond their expiration date. If a patient has been receiving injections of an outdated extract, he may experience excessive local or systemic reactions when changed to a new, and possibly more potent extract. In general, the longer the material has been outdated, the greater the dose reduction necessary for the fresh extract.

IF THE PREVIOUS EXTRACT WAS NON-STANDARDIZED: Standardized extracts differ in potency from non-standardized extracts. Use Table 2 for guidance in selecting dose for switching. To confirm dose selected, side-by-side skin testing of new and old extracts can be carried out. (See **CLINICAL PHARMACOLOGY**, Table 2.) Initiate therapy as though the patient had not been receiving immunotherapy, or determine initial dose by skin test using serial dilutions of the extract. See **PRECAUTIONS** and **DOSAGE AND ADMINISTRATION** Sections below.

IF ANY OTHER CHANGES HAVE BEEN MADE IN THE EXTRACT CONCENTRATE FORMULA: Changes other than those listed above may include situations such as a redistribution of component parts or percentages, a difference in extracting fluid (i.e., change from non-glycerin extracts to 50% glycerin extracts), combining two or more stock concentrates, or any other change.

It should be recognized that any change in formula can affect a patient's tolerance of the treatment. The usual 1/2 of the previous dose for a new extract may produce an adverse reaction; extra dilutions are recommended whenever starting a revised formula. The greater the change, the greater the number of dilutions required.

Proper selection of the dose and careful injection should prevent most systemic reactions. It must be remembered, however, that allergenic extracts are highly potent in

sensitive individuals, and that systemic reactions of varying degrees of severity may occur, including urticaria, rhinitis, conjunctivitis, wheezing, coughing, angioedema, hypotension, bradycardia, pallor, laryngeal edema, fainting, or even anaphylactic shock and death. Patients should be informed of this, and the precautions should be discussed prior to immunotherapy. (See PRECAUTIONS below.) Severe systemic reactions should be treated as indicated in the ADVERSE REACTIONS Section below.

PRECAUTIONS

1. GENERAL

The presence of asthmatic signs and symptoms appear to be an indicator for severe reactions following allergy injections. An assessment of airway obstruction either by measurement of peak flow or an alternate procedure may provide a useful indicator as to the advisability of administering an allergy injection.^{1, 30, 31, 32, 33}

Concentrated extracts must be diluted prior to use: See DOSAGE AND ADMINISTRATION Section for detailed instructions on the dilution of standardized glycerinated allergenic extracts.

Allergenic extracts diluted with Albumin Saline with Phenol (0.4%) may be more potent than extracts diluted with diluents which do not contain stabilizers. When switching from non-stabilized to stabilized diluent, consider weaker initial dilutions for both intradermal testing and immunotherapy.

Sterile solutions, vials, syringes, etc. should be used and aseptic precautions observed in making dilutions.

To avoid cross-contamination, do not use the same needle to withdraw materials from vials of more than one extract, or extract followed by diluent.

A sterile tuberculin syringe graduated in 0.01 mL units should be used to measure each dose from the appropriate dilution. Aseptic techniques should always be employed when injections of allergenic extracts are being administered.

A separate sterile syringe should be used for each patient to prevent transmission of hepatitis and other infectious agents from one person to another.

Patient reactions to previous injections should be reviewed before each new injection. A conservative dosage schedule should be followed by the physician until a pattern of local responses is established which can be used to monitor increases in dosage.

Rarely, a patient is encountered who develops systemic reactions to minute doses of allergen and does not demonstrate increasing tolerance to injections after several months of treatment. If systemic reactions or excessive local responses occur persistently at very small doses, efforts at immunotherapy should be stopped.

PATIENTS SHOULD BE OBSERVED IN THE OFFICE FOR AT LEAST 30 MINUTES AFTER EACH TREATMENT INJECTION. Most severe reactions will occur within this time period, and rapid treatment measures should be instituted. See ADVERSE REACTIONS Section for such treatment measures.

2. INFORMATION FOR PATIENTS

Patients should be instructed in the recognition of adverse reactions to immunotherapy, and in particular, to the symptoms of shock. Patients should be made to understand the importance of a 30 minute observation period, and be warned to return to the office promptly if symptoms occur after leaving.

3. CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY

Long-term studies in animals have not been conducted with allergenic extracts to determine their potential for carcinogenicity, mutagenicity or impairment of fertility.

4. PREGNANCY

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Allergenic Extracts. Animal reproduction studies have not been conducted with allergenic extracts. It is also not known whether allergenic extracts can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Allergenic extracts should be given to a pregnant woman only if clearly needed. For women who have been getting maintenance doses of allergen without side effect, the occurrence of pregnancy is not an indication to stop immunotherapy.

5. NURSING MOTHERS

There are no current studies on secretion of the allergenic extract components in human milk, or of their effect on the nursing infant. Because many drugs are excreted in human milk, caution should be exercised when allergenic extracts are administered to a nursing woman.

6. PEDIATRIC USE

Since dosage for the pediatric population is the same as for adults,²¹ the larger volumes of solution may produce excessive discomfort. Therefore, in order to achieve the total dose required, the volume of the dose may need to be divided into more than one injection per visit.

7. GERIATRIC USE

The reactions from immunotherapy can be expected to be the same in elderly patients as in younger ones. Elderly patients may be more likely to be on medication that could block the effect of epinephrine which could be used to treat serious reactions, or they could be more sensitive to the cardiovascular side effect of epinephrine because of pre-existing cardiovascular disease.⁴

8. DRUG INTERACTIONS

Patients on non-selective beta blockers may be more reactive to allergens given for diagnosis or treatment, and may be unresponsive to the usual doses of epinephrine used to treat allergic reactions.¹⁹

Certain medications may lessen the skin test wheal and erythema responses elicited by allergens and histamine for varying time periods. Conventional antihistamines should be discontinued at least 5 days before skin testing. Long acting antihistamines should be discontinued for at least 3 weeks prior to skin testing.²³ Topical steroids should be discontinued at the skin test site for at least 2-3 weeks before skin testing.^{23, 24} Tricyclic antidepressants such as Doxepin should be withheld for at least 7 days before skin testing.²⁵ Topical local anesthetics may suppress the flare responses and should be avoided in skin test sites.²⁶

ADVERSE REACTIONS

1. Local Reactions

Some erythema, swelling or pruritus at the site of injection are common, the extent varying with the patient. Such reactions should not be considered significant unless they persist for at least 24 hours. Local reactions (erythema or swelling) which exceed 4-5 cm in diameter are not only uncomfortable, but also indicate the possibility of a systemic reaction if dosage is increased. In such cases the dosage should be reduced to the last level not causing the reaction and maintained at this level for two or three treatments before cautiously increasing again.

Large persistent local reactions may be treated by local cold, wet dressings and/or the use of oral antihistamines. They should be considered a warning of possible severe systemic reactions and an indication of the need for temporarily reduced dosages. A mild burning immediately after the injection is to be expected. This usually leaves in 10 to 20 seconds.

2. Systemic Reactions

With careful attention to dosage and administration, systemic reactions occur infrequently, but it cannot be overemphasized that in sensitive individuals, any injection could result in anaphylactic shock. Therefore, it is imperative that physicians administering allergenic extracts understand and be prepared for the treatment of severe reactions.

Other possible systemic reactions which may occur in varying degrees of severity are laryngeal edema, fainting, pallor, bradycardia, hypotension, angioedema, cough, wheezing, conjunctivitis, rhinitis, and urticaria. Adverse reaction frequency data for allergenic extract administration for testing and treatment show that risk is low.^{1, 22}

If a systemic or anaphylactic reaction does occur, apply a tourniquet above the site of injection and inject 1:1,000 epinephrine-hydrochloride intramuscularly or subcutaneously into the opposite arm. Loosen the tourniquet at least every 10 minutes. Do not obstruct arterial blood flow with the tourniquet.

EPINEPHRINE DOSAGE

ADULT DOSAGE: 0.3 to 0.5 mL should be injected. Repeat in 5 to 10 minutes if necessary.

PEDIATRIC DOSAGE: The usual initial dose is 0.01 mg (mL) per kg body weight or 0.3 mg (mL) per square meter of body surface area. Suggested dosage for infants to 2 years of age is 0.05 to 0.1 mL; for children 2 to 6 years, 0.15 mL; and children 6 to 12 years, 0.2 mL. Single pediatric doses should not exceed 0.3 mg (mL). Doses may be repeated as frequently as every 20 minutes, depending on the severity of the condition and the response of the patient.

After administration of epinephrine, profound shock or vasomotor collapse should be treated with intravenous fluids, and possibly vasoactive drugs. Airway patency should be insured. Oxygen should be given by mask. Intravenous antihistamines, inhaled bronchodilators, theophylline and/or corticosteroids may be used if necessary after adequate epinephrine and circulatory support have been given. Emergency resuscitation measures and personnel trained in their use must be available immediately in the event of a serious systemic or anaphylactic reaction not responsive to the above measures [Ref. *J. Allergy and Clinical Immunology*, 77(2): p. 271-273, 1986].

Rarely are all of the above measures necessary; the tourniquet and epinephrine usually produce prompt responses. However, the physician should be prepared in advance for all contingencies. Promptness in beginning emergency treatment measures is of utmost

importance.

Severe systemic reactions mandate a decrease of at least 50% in the next dose, followed by cautious increases. Repeated systemic reactions, even of a mild nature, are sufficient reason for the cessation of further attempts to increase the reaction-causing dose.

3. Adverse Event Reporting

Report all adverse events to Jubilant HollisterStier LLC Customer Technical Services Department at 1 (800) 992-1120. A voluntary adverse event reporting system for health professionals is available through the FDA MEDWATCH program. Preprinted forms (FDA Form 3500) are available from the FDA by calling 1 (800) FDA-1088. Completed forms should be mailed to MEDWATCH, 5600 Fisher Lane, Rockville, MD 20852-9787 or Fax to: 1 (800) FDA-0178.

OVERDOSAGE

See ADVERSE REACTIONS Section.

DOSAGE AND ADMINISTRATION

1. General

Sterile aqueous diluent containing albumin (human) [Albumin Saline with Phenol (0.4%)] or diluent of 50% glycerin may be used when preparing dilutions of the concentrate for immunotherapy. For intradermal testing dilutions, Albumin Saline with Phenol (0.4%) is recommended.

Dilutions should be made accurately and aseptically, using sterile diluent, vials, syringes, etc. Mix thoroughly and gently by rocking or swirling.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit.

2. Diagnosis

Prick or Puncture Test: To identify highly sensitive individuals and as a safety precaution, it is recommended that a prick or puncture test using a drop of 10,000 BAU/mL extract be performed prior to initiating intradermal testing. If this test is negative, a second prick/puncture test may be performed using a 100,000 BAU/mL extract. Prick tests are performed by placing a drop of extract on the skin and piercing through the drop into the skin with a slight lifting motion. Puncture tests are performed by placing a drop of extract concentrate on the skin and piercing the skin through the drop with a small needle such as a Prick Lancetter. Fifteen minutes after puncture is made the diameter of wheal and erythema reactions are measured, and the sensitivity class of the patient determined by Table 3. Less sensitive individuals (Class 0 to 1+) can be tested intradermally with the recommended dilutions of the extract concentrate (See intradermal testing instructions).

Intradermal Test: Patients with a negative prick or puncture test should be tested intradermally with 100 BAU/mL. If this test is negative, a second intradermal test may be performed using a 1,000 BAU/mL extract. The negative control should have glycerin concentration equivalent to the glycerin concentration of the intradermal test solution, not to exceed 5% glycerin.

It is recommended that patients be tested using the intradermal technique only after screening by prick or puncture test.

Extract for intradermal testing should be prepared by diluting the stock concentrate, provided in multiple-dose vials, with Sterile Albumin Saline with Phenol (0.4%) (refer to Table 4 in the Immunotherapy section below).

To administer the intradermal strength dilutions, a 1 mL tuberculin syringe with a short 27-gauge needle should be used. The needle is inserted intradermally at a 30° angle, bevel down, and 0.02 to 0.05 mL of the extract is injected. Fifteen minutes following injection, the diameter of wheal and erythema reactions are measured, and the patient's sensitivity class is determined by the table below. Skin tests are graded in terms of the wheal and erythema response noted at 10 to 20 minutes. Wheal and erythema size may be recorded by actual measurement of the extent of both responses. Refer to Table 3 to determine the skin test sensitivity class. The corresponding ΣE (sum of the longest diameter and the mid-point orthogonal diameters of erythema) is also presented.

TABLE 3 Classification of Skin Test Sensitivity for Intradermal and Pick or Puncture

Class	Wheal Diameter	Erythema Diameter	Corresponding ΣE
0	< 5 mm	<5 mm	<10 mm
±	5-10 mm	5-10 mm	10-20 mm
1+	5-10 mm	11-20 mm	20-40 mm
2+	5-10 mm	21-30 mm	40-60 mm
3+	10-15 mm ^a	31-40 mm	60-80 mm
4+	>15 mm ^b	>40 mm	>80 mm

a. or with pseudopods

b. or with many pseudopods

3. Immunotherapy

Allergenic extracts should be administered using a sterile syringe with 0.01 mL gradations and a 25-27 gauge X 1/2" to 5/8" needle. The injections are given subcutaneously. The most common sites of injection are the lateral aspect of the upper arm or thigh. Intracutaneous or intramuscular injections may produce large local reactions which may be very painful.

Dosage of allergenic extracts is a highly individualized matter and varies according to the degree of sensitivity of the patient, his clinical response, and tolerance to the extract administered during the early phases of an injection regimen. The starting dose should be based on skin tests of the extract to be used for immunotherapy. To prepare dilutions for intradermal and therapeutic use, make a 1:10 dilution by adding 1.0 mL of the concentrate to 9.0 mL of Sterile Albumin Saline with Phenol (0.4%). Subsequent serial dilutions are made in a similar manner. (See Table 4.) To determine the starting dose, begin intradermal testing with the most dilute extract preparation. Inject 0.02 mL and read the reaction after 15 minutes. Intradermal testing is continued with increasing concentrations of the extract until a reaction of 11-20 mm erythema (ΣE 20-40 mm) and/or a 5 mm wheal occurs. This concentration at a dose of 0.03 mL then can serve as a starting dose for immunotherapy and be increased by 0.03 mL to as high as 0.12 mL increments each time until 0.3 mL is reached, at which time a dilution 10 times as strong can be used, starting with 0.03 mL. Proceed in this way until a tolerance dose is reached or symptoms are controlled. Suggested maintenance dose is 0.2 mL of the concentrate.

Occasionally, higher doses are necessary to relieve symptoms. Special caution is required in administering doses greater than 0.2 mL. The interval between doses normally is 3 to 7 days.

Potencies of 10,000 BAU/mL and 100,000 BAU/mL are available for treatment. The two selections are available to facilitate safe switching by providing flexibility in dosing. For previously untreated patients, initiate treatment using dilutions made from the 10,000 BAU/mL concentrate. If tolerated and symptoms justify a higher dosage, then use of dilutions made from the 100,000 BAU/mL concentrate is warranted. Proceed with caution when using 100,000 BAU/mL in higher doses.

When converting a patient who is currently receiving non-standardized grass pollen extracts, it is recommended that skin testing be performed to compare the potency of the new and old extracts. If you choose not to skin test as recommended, but to continue therapy, the maximum first dose of the new allergenic product should not exceed 10% (1/10) of the previous dose.

This is offered as a suggested schedule for average patients and will be satisfactory in most cases. However, the degree of sensitivity varies in many patients. The size of the dose should be adjusted and should be regulated by the patient's tolerance and reaction. The size of the dose should be decreased if the previous injection resulted in marked local or the slightest general reaction. Another dose should never be given until all local reactions resulting from the previous dose have disappeared.

In some patients, the dosage may be increased more rapidly than called for in the schedule. In seasonal allergies, treatment should be started and the interval between doses regulated so that at least the first twenty doses will have been administered by the time symptoms are expected. Thus, the shorter the interval between the start of immunotherapy and the expected onset of symptoms, the shorter the interval between each dose. Some patients may even tolerate daily doses. A maintenance dose, the largest dose tolerated by the patient that relieves symptoms without producing undesirable local or general reactions, is recommended for most patients. The upper limits of dosage have not been established; however, doses larger than 0.2 mL of the glycerin concentrate may be painful due to the glycerin content. The dosage of allergenic extract does not vary significantly with the respiratory allergic disease under treatment. The size of this dose and the interval between doses will vary and can be adjusted as necessary. Should symptoms develop before the next injection is scheduled, the interval between doses should be decreased. Should allergic symptoms or local reactions develop shortly after the dose is administered, the size of the dose should be decreased. In seasonal allergies, it is often advisable to decrease the dose to one-half or one-quarter of the maximum dose previously attained if the patient has any seasonal symptoms.

The interval between maintenance doses can be increased gradually from one week to 10 days, to two weeks, to three weeks, or even to four weeks if tolerated. Repeat the doses at a given interval three or four times to check for untoward reactions before further increasing the interval. Protection is lost rapidly if the interval between doses is more than four weeks. (See WARNINGS Section.)

The usual duration of treatment has not been established. A period of two or three years of injection therapy constitutes an average minimum course of treatment.

TABLE 4
TEN-FOLD DILUTION SERIES
Standardized Extracts Labeled 100,000 BAU/mL

Dilution	Extract	+ Diluent =	BAU/mL Concentration
0	Concentrate	+0 mL	= 100,000
1	1 mL Concentrate	+9 mL	= 10,000
2	1 mL dilution #1	+9 mL	= 1,000
3	1 mL dilution #2	+9 mL	= 100
4	1 mL dilution #3	+9 mL	= 10
5	1 mL dilution #4	+9 mL	= 1.0
6	1 mL dilution #5	+9 mL	= 0.10
7	1 mL dilution #6	+9 mL	= 0.010

(4) PEDIATRIC USE

The dose for the pediatric population is the same as for adults. (See PRECAUTIONS.)

(5) GERIATRIC USE

The dose for elderly patients is the same as for adult patients under 65.4

HOW SUPPLIED

Standardized allergenic extracts of grass pollens are supplied for diagnostic and therapeutic use:

Diagnosics:

Extracts: Pollens*

Prick/puncture tests, 10,000 BAU/mL and 100,000 BAU/mL [50% glycerin (v/v)] in 5 mL dropper vial.

Intradermal Tests [Aqueous] of 100 BAU/mL in 5 mL vial, and 1,000 BAU/mL in 5 mL vial. (Intradermal test solutions may contain up to 5% glycerin.)

*Bermuda grass, 10,000 BAU/mL is highest concentration.

Bulk Therapeutics [50% glycerin (v/v)] in multiple dose vials:

Extracts: Pollens*

10 mL vial, in strengths of 100,000 BAU/mL and 10,000 BAU/mL

30 mL vial, in strengths of 100,000 BAU/mL and 10,000 BAU/mL

50 mL vial, in strengths of 100,000 BAU/mL and 10,000 BAU/mL

*Bermuda grass, 10,000 BAU/mL only.

STORAGE

The expiration date of pollen extract in 50% glycerin is listed on the container label. The extract should be stored at 2°- 8°C. Dilutions containing less than 50% glycerin are less stable and, if loss of potency is suspected, should be checked by skin testing with equal units of a freshly prepared dilution on known pollen allergic individuals. The expiration date of the intradermal tests is listed on container labels. Store at 2°- 8°C.

LIMITED WARRANTY

A number of factors beyond our control could reduce the efficacy of this product or even result in an ill effect following its use. These include storage and handling of the product after it leaves our hands, diagnosis, dosage, method of administration and biological differences in individual patients. Because of these factors, it is important that this product be stored properly and that the directions be followed carefully during use. No warranty, express or implied, including any warranty of merchantability or fitness, is made. Representatives of the Company are not authorized to vary the terms or the contents of any printed labeling, including the package insert, for this product except by printed notice from the Company's headquarters. The prescriber and user of this product must accept the terms hereof.

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Standardized Grass Pollen, Bermuda Grass 10 mL, 10,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
BERMUDA GRASS**

C. dactylon

10,000 BAU/mL



(01)00365044053727
(17)220813
(10)E2000065
(21)000000003796

Item: 0537TJ
Lot: E2000065
Exp: 2022Aug13

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL Item: 0537TJ

Store at 2-8°C
Rx Only - Sterile

NDC: 65044-0537-2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Standardized Grass Pollen, Bermuda Grass 10 mL, 10,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN BERMUDA GRASS

C. dactylon

10 mL **10,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0537TJ
U.S. License No. 1272 Lot: E2000065
Exp: 2022Aug13
Jubilant HollisterStier LLC Spokane, WA 99207

50000000590 - H01

50000000143-H01

Standardized Grass Pollen, Bermuda Grass 50 mL, 10,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0537TL
Lot: E2000066
Exp: 2022Aug13

Non-Returnable

STANDARDIZED GRASS POLLEN BERMUDA GRASS **C. dactylon**

10,000 BAU/mL

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 053711

Store at 2-8°C

Rx Only - Sterile



(01)00365044053741
(17)220813
(10)E2000066
(21)000000003685

NDC: 65044-0537-4
U.S. License No. 1272

50000000648-H02

50000000129-H02

Standardized Grass Pollen, Bermuda Grass 50 mL, 10,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN BERMUDA GRASS *C. dactylon*

50 mL **10,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 0537TL
Lot: E2000066
Exp: 2022Aug13

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0537-4
U.S. License No. 1272

Jubilant HollisterStier LLC, Spokane, WA 99207

50000000144-H01 50000000614 - H01

Standardized Grass Pollen, Kentucky Bluegrass 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
KENTUCKY
BLUEGRASS
P. pratensis**



(01)00365044054618
(17)220212
(10)E1901113
(21)000000000802

100,000 BAU/mL

Item: 0545TS
Lot: E1901113
Exp: 2022Feb12

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL

Item: 0545TS

Store at 2-8°C

Rx Only - Sterile Until Opened

NDC: 65044-0546-1
U.S. License No. 127

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Kentucky Bluegrass 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN KENTUCKY BLUEGRASS

P. pratensis

5 mL **100,000 BAU/mL**

Dose/Route: 1 drop topically

Not interchangeable with other grass pollens.

Preservative: 50% Glycerin v/v

U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

Rx Only - Sterile

Until Opened

Store at 2-8°C

Item: 0545TS

Lot: E1901113

Exp: 2022Feb12

50000000580 - H01

50000000143-H01

Standardized Grass Pollen, Kentucky Bluegrass 10 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
KENTUCKY
BLUEGRASS
P. pratensis**



(01)00365044054625
(17)220212
(10)E1900495
(21)000000000129

100,000 BAU/mL

Item: 0545TW
Lot: E1900495
Exp: 2022Feb12

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL Item: 0545TW

Store at 2-8°C

Rx Only - Sterile

NDC: 65044-0546-2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Non-Returnable

Standardized Grass Pollen, Kentucky Bluegrass 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN KENTUCKY BLUEGRASS

P. pratensis

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0545TW
U.S. License No. 1272 Lot: E1900495
Exp: 2022Feb12
Jubilant HollisterStier LLC Spokane, WA 99207

60000000590 - H01
5000000143-H01

Standardized Grass Pollen, Kentucky Bluegrass 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0545TY
Lot: E2000020
Exp: 2022Aug18

Non Returnable

STANDARDIZED GRASS POLLEN KENTUCKY BLUEGRASS

P. pratensis

100,000 BAU/mL

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 0545TY
Store at 2-8°C
Rx Only - Sterile



(01)00365044054649
(17)Z20818
(10)E2000020
(21)00000000389

NDC: 65044-0546-4
U.S. License No. 1272

50000000646-H02

5000000129-H02

Standardized Grass Pollen, Kentucky Bluegrass 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN KENTUCKY BLUEGRASS *P. pratensis*

50 mL **100,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 0545TY
Lot: E2000020
Exp: 2022Aug18

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0546-4
U.S. License No. 1272

Jubilant HollisterStier LLC, Spokane, WA 99207

5000000144-H01
50000000614 - H01

Standardized Grass Pollen, Meadow Fescue 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

STANDARDIZED GRASS POLLEN MEADOW FESCUE

F. pratensis

100,000 BAU/mL



(01)00365044061210
(17)220205
(10)E1900492
(21)000000000095

Item: 0611TS
Lot: E1900492
Exp: 2022Feb05

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL

Item: 0611TS

Store at 2-8°C

Rx Only - Sterile Until Opened

NDC: 65044-0612-1
U.S. License No. 1272

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Meadow Fescue 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

**STANDARDIZED GRASS POLLEN
MEADOW FESCUE**
F. pratensis

60000000680 - H01

5 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: 1 drop topically Until Opened
Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0611TS
U.S. License No. 1272 Lot: E1900492
Exp: 2022Feb05
Jubilant HollisterStier LLC Spokane, WA 99207

50000000143-H01

Standardized Grass Pollen, Meadow Fescue 10 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

STANDARDIZED GRASS POLLEN MEADOW FESCUE

F. pratensis

100,000 BAU/mL



(01)00365044061227
(17)220205
(10)E1900491
(21)000000000481

Item: 0611TW
Lot: E1900491
Exp: 2022Feb05

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL Item: 0611TW

Store at 2-8°C

Rx Only - Sterile

NDC: 65044-0612-2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Standardized Grass Pollen, Meadow Fescue 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN MEADOW FESCUE *F. pratensis*

50000000590 - H01

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 06111W
U.S. License No. 1272 Lot: E1900491
Exp: 2022Feb05
Jubilant HollisterStier LLC Spokane, WA 99207

50000000143-H01

Standardized Grass Pollen, Meadow Fescue 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 06111TY
Lot: PR67065
Exp: 2053Jan01

Non-Returnable

STANDARDIZED GRASS POLLEN MEADOW FESCUE *F. pratensis*

100,000 BAU/mL

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 06111TY
Store at 2-8°C
Rx Only - Sterile



(01)00365044061241
(17)530101
(10)PR67065
(21)000000000001

NDC: 65044 0612 4
U.S. License No. 1272

50000000546-H02

50000000129-H02

Standardized Grass Pollen, Meadow Fescue 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN MEADOW FESCUE

F. pratensis

50 mL **100,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 06111Y
Lot: PR67065
Exp: 2053Jan01

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0612-4
U.S. License No. 1272

Jubilant HollisterStier LLC, Spokane, WA 99207

60000000614 - H01
50000000144-H01

Standardized Grass Pollen, Orchard Grass 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

STANDARDIZED GRASS POLLEN ORCHARD GRASS

D. glomerata

100,000 BAU/mL



(01)00365044071912
(17)220519
(10)E1900837
(21)000000001341

Item: 0718TS
Lot: E1900837
Exp: 2022May19

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL Item: 0718TS

Store at 2-8°C

Rx Only - Sterile Until Opened

NDC: 65044-0719-1
U.S. License No. 1272

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Orchard Grass 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN ORCHARD GRASS

D. glomerata

5 mL **100,000 BAU/mL**

Dose/Route: 1 drop topically

Not interchangeable with other grass pollens.

Preservative: 50% Glycerin v/v

U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

Rx Only - Sterile

Until Opened

Store at 2-8°C

Item: 0718TS

Lot: E1900837

Exp: 2022May19

60000000580 - H01

50000000143-H01

Standardized Grass Pollen, Orchard Grass 10 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

STANDARDIZED GRASS POLLEN ORCHARD GRASS

D. glomerata

100,000 BAU/mL



(01)00365044071929
(17)220519
(10)E1900838
(21)000000000709

Item: 0718TW
Lot: E1900838
Exp: 2022May19

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL Item: 0718TW

Store at 2-8°C

Rx Only - Sterile

NDC: 65044-0719-2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Standardized Grass Pollen, Orchard Grass 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN ORCHARD GRASS

D. glomerata

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0718TW
U.S. License No. 1272 Lot: E1900838
Exp: 2022May19
Jubilant HollisterStier LLC Spokane, WA 99207

50000000590 - H01
5000000143-H01

Standardized Grass Pollen, Orchard Grass 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN ORCHARD GRASS *D. glomerata*

100,000 BAU/mL



(01)00365044071943
(17)220519
(10)E1900839
(21)00000000489

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0718TY
Lot: E1900839
Exp: 2022May19

Non-Returnable

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 0718TY
Store at 2-8°C
Rx Only - Sterile

NDC: 65044-0719-4
U.S. License No. 1272

50000000646-H02

5000000129-H02

Standardized Grass Pollen, Orchard Grass 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN ORCHARD GRASS

D. glomerata

50 ml **100,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 0718TY
Lot: E1900839
Exp: 2022 May 19

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0719-4
U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

50000000614 - H01
50000000144-H01

Standardized Grass Pollen, Perennial Ryegrass 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
PERENNIAL
RYEGRASS
L. perenne**



(01)00365044078812
(17)220521
(10)E1901057
(21)000000000333

100,000 BAU/mL

Item: 0787TS
Lot: E1901057
Exp: 2022May21

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL

Item: 0787TS

Store at 2-8°C

Rx Only - Sterile Until Opened

NDC: 65044-0788-1
U.S. License No. 1272

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Perennial Ryegrass 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN PERENNIAL RYEGRASS

L. perenne

5 mL **100,000 BAU/mL**

Dose/Route: 1 drop topically

Not interchangeable with other grass pollens.

Preservative: 50% Glycerin v/v

U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

Rx Only - Sterile

Until Opened

Store at 2-8°C

Item: 0787TS

Lot: E1901057

Exp: 2022May21

50000000580 - H01

50000000143-H01

**Standardized Grass Pollen, Perennial Ryegrass 10 mL, 100,000
BAU/mL Carton Label**

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
PERENNIAL
RYEGRASS
L. perenne**



(01)00365044078829
(17)220521
(10)E1901058
(21)000000000833

100,000 BAU/mL

Item: 0787TW
Lot: E1901058
Exp: 2022May21

Not interchangeable with other
grass pollens.
Dose/Route: See Package Insert

10 mL Item: 0787TW
Store at 2-8°C
Rx Only - Sterile

NDC: 65044-0788-2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Non-Returnable

Standardized Grass Pollen, Perennial Ryegrass 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN PERENNIAL RYEGRASS

L. perenne

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0787TW
U.S. License No. 1272 Lot: E1901058
Exp: 2022May21
Jubilant HollisterStier LLC Spokane, WA 99207

50000000690 - H01
50000000143-H01

Standardized Grass Pollen, Perennial Ryegrass 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN PERENNIAL RYEGRASS

L. perenne

100,000 BAU/mL



(01)00365044078843
(17)220521
(10)E1901058
(21)000000000497

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0787TY
Lot: E1901059
Exp: 2022May21

Non-Returnable

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 0787TY
Store at 2-8°C
Rx Only - Sterile

NDC: 65044-0788-4
U.S. License No. 1272

50000000646-H02

50000000129-H02

Standardized Grass Pollen, Perennial Ryegrass 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN PERENNIAL RYEGRASS

L. perenne

50 mL **100,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 07871Y
Lot: E1901059
Exp: 2022May21

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0788-4
U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

50000000144-H01 50000000614 - H01

Standardized Grass Pollen, Redtop 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

STANDARDIZED GRASS POLLEN REDTOP

A. gigantea

100,000 BAU/mL



(01)00365044077815
(17)220609
(10)E1900939
(21)000000000825

Item: 0777TS
Lot: E1900939
Exp: 2022Jun09

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL Item: 0777TS

Store at 2-8°C

Rx Only - Sterile Until Opened

NDC: 65044-0778-1
U.S. License No. 1272

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Redtop 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

**STANDARDIZED GRASS POLLEN
REDTOP
A. gigantea**

50000000580 - H01

5 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: 1 drop topically Until Opened
Store at 2-8°C

Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0777TS
U.S. License No. 1272 Lot: E1900939
Exp: 2022Jun09

50000000143-H01

Jubilant HollisterStier LLC Spokane, WA 99207

Standardized Grass Pollen, Redtop 10 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

STANDARDIZED GRASS POLLEN REDTOP

A. gigantea

100,000 BAU/mL



(01)00365044077822
(17)220609
(10)E1900940
(21)000000000813

Item: 0777TW
Lot: E1900940
Exp: 2022Jun09

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL Item: 0777TW

Store at 2-8°C
Rx Only - Sterile

NDC: 65044-0778-2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Standardized Grass Pollen, Redtop 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN REDTOP *A. gigantea*

50000000590 - H01

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0777TW
U.S. License No. 1272 Lot: E1900940
Exp: 2022Jun09
Jubilant HollisterStier LLC Spokane, WA 99207

50000000143-H01

Standardized Grass Pollen, Redtop 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0777TY
Lot: E1900941
Exp: 2022Jun09

Non-Returnable

STANDARDIZED GRASS POLLEN REDTOP *A. gigantea*

100,000 BAU/mL

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 0777TY
Store at 2-8°C
Rx Only - Sterile



(01)00365044077846
(17)220609
(10)E1900941
(21)00000000213

NDC: 65044-0778-4
U.S. License No. 1272

50000000646-H02

50000000129-H02

Standardized Grass Pollen, Redtop 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN REDTOP A. gigantea

50 mL **100,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 07771Y
Lot: E1900941
Exp: 2022Jun09

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0778-4
U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

5000000144-H01
50000000614 - H01

Standardized Grass Pollen, Sweet Vernal Grass 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
SWEET VERNAL
GRASS
A. odoratum**



(01)00365044082611
(17)220609
(10)E1900944
(21)000000000443

100,000 BAU/mL

Item: 0825TS
Lot: E1900944
Exp: 2022Jun09

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL

Item: 0825TS

Store at 2-8°C

Rx Only - Sterile Until Opened

NDC: 65044-0826-1
U.S. License No. 1272

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Sweet Vernal Grass 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN SWEET VERNAL GRASS

A. odoratum

5 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: 1 drop topically Until Opened
Store at 2-8°C

Not interchangeable with other grass pollens.

Preservative: 50% Glycerin v/v Item: 0825TS
U.S. License No. 1272 Lot: E1900944
Exp: 2022Jun09

Jubilant HollisterStier LLC, Spokane, WA 99207

60000000580 - H01

50000000143-H01

Standardized Grass Pollen, Sweet Vernal Grass 10 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
SWEET VERNAL
GRASS
A. odoratum**



(01)00365044082628
(17)220609
(10)E1900945
(21)000000000727

100,000 BAU/mL

Item: 0825TW
Lot: E1900945
Exp: 2022Jun09

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL

Item: 0825TW

Store at 2-8°C

Rx Only - Sterile

NDC: 65044-0826-2
U.S. License No. 1272

50000000624 - H01

Non-Returnable

50000000099-H01

Standardized Grass Pollen, Sweet Vernal Grass 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN SWEET VERNAL GRASS

A. odoratum

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.
Preservative: 50% Glycerin v/v Item: 0825TW
U.S. License No. 1272 Lot: E1900945
Exp: 2022Jun09
Jubilant HollisterStier LLC Spokane, WA 99207

50000000590 - H01
50000000143-H01

Standardized Grass Pollen, Sweet Vernal Grass 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0825TY
Lot: E1900946
Exp: 2022Jun09

Non-Returnable

STANDARDIZED GRASS POLLEN SWEET VERNAL GRASS **A. odoratum**

100,000 BAU/mL

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 0825TY
Store at 2-8°C
Rx Only - Sterile



(01)00365044082642
(17)220609
(10)E1900946
(21)000000000189

NDC: 65044-0826-4
U.S. License No. 1272

50000000646-H02

50000000120-H02

Standardized Grass Pollen, Sweet Vernal Grass 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN SWEET VERNAL GRASS

A. odoratum

50 mL **100,000 BAU/mL**
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

Item: 0825TY
Lot: E1900946
Exp: 2022 Jun 09

Preservative: 50% Glycerin v/v
Rx Only Sterile
Store at 2-8°C

NDC: 65044-0826-4
U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

50000000144-H01 500000000614 - H01

Standardized Grass Pollen, Timothy 5 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
TIMOTHY**

P. pratense

100,000 BAU/mL



(01)00365044083212
(17)220204
(10)E1901145
(21)000000001221

Item: 0831TS
Lot: E1901145
Exp: 2022Feb04

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: 1 drop topically

5 mL

Store at 2-8°C

Rx Only - Sterile Until Opened

Item: 0831TS

NDC: 65044-0832-1
U.S. License No. 1272

50000000622 - H01

50000000099-H01

Standardized Grass Pollen, Timothy 5 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

**STANDARDIZED GRASS POLLEN
TIMOTHY
P. pratense**

5 mL **100,000 BAU/mL**

Dose/Route: 1 drop topically

Not interchangeable with other grass pollens.

Preservative: 50% Glycerin v/v

U.S. License No. 1272

Jubilant HollisterStier LLC Spokane, WA 99207

Rx Only - Sterile
Until Opened
Store at 2-8°C

Item: 0831TS
Lot: E1901145
Exp: 2022Feb04

50000000580 - H01

50000000143-H01

Standardized Grass Pollen, Timothy 10 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium
chloride
0.275% Sodium
bicarbonate

**STANDARDIZED
GRASS POLLEN
TIMOTHY**

P. pratense

100,000 BAU/mL



(01)00365044083229
(17)220204
(10)E1901102
(21)000000000822

Item: 0831TW
Lot: E1901102
Exp: 2022Feb04

Non-Returnable

Not interchangeable with other
grass pollens.

Dose/Route: See Package Insert

10 mL Item: 0831TW

Store at 2-8°C

Rx Only - Sterile

NDC: 65044-0832 2
U.S. License No. 1272

50000000624 - H01

50000000099-H01

Standardized Grass Pollen, Timothy 10 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN TIMOTHY P. pratense

50000000590 - H01

10 mL **100,000 BAU/mL** Rx Only - Sterile
Dose/Route: See Package Insert Store at 2-8°C
Not interchangeable with other grass pollens.

Preservative: 50% Glycerin v/v Item: 0831TW
U.S. License No. 1272 Lot: E1901102
Exp: 2022Feb04

Jubilant HollisterStier LLC Spokane, WA 99207

5000000143-H01

Standardized Grass Pollen, Timothy 50 mL, 100,000 BAU/mL Carton Label

ALLERGENIC EXTRACT

Preservative:
50% Glycerin v/v

Inactive Ingredients:
0.5% Sodium chloride
0.275% Sodium
bicarbonate

Item: 0831TY
Lot: E1901046
Exp: 2022Feb04

Non-Returnable

STANDARDIZED GRASS POLLEN TIMOTHY P. pratense

100,000 BAU/mL

Not interchangeable with other grass
pollens.

Dose/Route: See Package Insert

50 mL Item: 0831TY

Store at 2-8°C

Rx Only - Sterile



(01)00365044083243
(17)220204
(10)E1901046
(21)00000001150

NDC: 65044-0832-4
U.S. License No. 1272

50000000646-H02

5000000129-H02

Standardized Grass Pollen, Timothy 50 mL, 100,000 BAU/mL Vial Label

ALLERGENIC EXTRACT

STANDARDIZED GRASS POLLEN TIMOTHY *P. pratense*

50 ml
Dose/Route: See Package Insert
Not interchangeable with other grass pollens.

100,000 BAU/mL

Item: 0831TY
Lot: E1901046
Exp: 2022Feb04

Preservative: 50% Glycerin v/v
Rx Only - Sterile
Store at 2-8°C

NDC: 65044-0832 4
U.S. License No. 1277

Jubilant HollisterStier LLC Spokane, WA 99207

50000000614 - H01
50000000144-H01

STANDARDIZED GRASS POLLEN, FESCUE, MEADOW

standardized grass pollen, fescue, meadow injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0611
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
FESTUCA PRATENSIS POLLEN (UNII: A0WFAQ8P6N1) (FESTUCA PRATENSIS POLLEN - UNII:A0WFAQ8P6N1)	FESTUCA PRATENSIS POLLEN	10000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0611-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0611-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0611-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		

4	NDC:65044-0611-4	50 mL in 1 VIAL; Type 0: Not a Combination Product
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Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103874	01/15/1998	

STANDARDIZED GRASS POLLEN, FESCUE, MEADOW

standardized grass pollen, fescue, meadow injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0612
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
FESTUCA PRATENSIS POLLEN (UNII: A0WFQ8P6N1) (FESTUCA PRATENSIS POLLEN - UNII:A0WFQ8P6N1)	FESTUCA PRATENSIS POLLEN	100000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0612-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0612-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0612-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0612-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103874	01/15/1998	

STANDARDIZED GRASS POLLEN, REDTOP

standardized grass pollen, redtop injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0777
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
AGROSTIS GIGANTEA POLLEN (UNII: HU8V6E7HOA) (AGROSTIS GIGANTEA POLLEN - UNII:HU8V6E7HOA)	AGROSTIS GIGANTEA POLLEN	10000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0777-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0777-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0777-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0777-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103876	01/15/1998	

STANDARDIZED GRASS POLLEN, REDTOP

standardized grass pollen, redtop injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0778	
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
AGROSTIS GIGANTEA POLLEN (UNII: HU8V6E7HOA) (AGROSTIS GIGANTEA POLLEN - UNII:HU8V6E7HOA)		AGROSTIS GIGANTEA POLLEN	100000 [BAU] in 1 mL	
Inactive Ingredients				
Ingredient Name			Strength	
GLYCERIN (UNII: PDC6A3C0OX)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
SODIUM BICARBONATE (UNII: 8MDF5V39QO)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0778-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0778-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0778-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0778-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103876	01/15/1998		

STANDARDIZED GRASS POLLEN, ORCHARD GRASS

standardized grass pollen, orchard grass injection, solution

Product Information			
Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0718
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
DACTYLIS GLOMERATA POLLEN (UNII: 83N78IDA7P) (DACTYLIS GLOMERATA		DACTYLIS GLOMERATA	10000 [BAU]

POLLEN - UNII:83N78IDA7P)		POLLEN	in 1 mL	
Inactive Ingredients				
Ingredient Name			Strength	
GLYCERIN (UNII: PDC6A3C0OX)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
SODIUM BICARBONATE (UNII: 8MDF5V39QO)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0718-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0718-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0718-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0718-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103875	01/15/1998		

STANDARDIZED GRASS POLLEN, ORCHARD GRASS				
standardized grass pollen, orchard grass injection, solution				
Product Information				
Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0719	
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
DACTYLIS GLOMERATA POLLEN (UNII: 83N78IDA7P) (DACTYLIS GLOMERATA POLLEN - UNII:83N78IDA7P)		DACTYLIS GLOMERATA POLLEN	100000 [BAU] in 1 mL	
Inactive Ingredients				
Ingredient Name			Strength	
GLYCERIN (UNII: PDC6A3C0OX)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
SODIUM BICARBONATE (UNII: 8MDF5V39QO)				

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0719-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0719-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0719-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0719-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103875	01/15/1998	

STANDARDIZED GRASS POLLEN, BERMUDA GRASS

standardized grass pollen, bermuda grass injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0537
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
CYNODON DACTYLON POLLEN (UNII: 175F461W10) (CYNODON DACTYLON POLLEN - UNII:175F461W10)	CYNODON DACTYLON POLLEN	10000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0537-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		

2	NDC:65044-0537-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0537-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0537-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103872	01/15/1998	

STANDARDIZED GRASS POLLEN, TIMOTHY

standardized grass pollen, timothy injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0831
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHLEUM PRATENSE POLLEN (UNII: 65M88RW2EG) (PHLEUM PRATENSE POLLEN - UNII:65M88RW2EG)	PHLEUM PRATENSE POLLEN	10000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0831-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0831-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0831-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0831-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103879	01/15/1998	

STANDARDIZED GRASS POLLEN, TIMOTHY

standardized grass pollen, timothy injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0832
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PHLEUM PRATENSE POLLEN (UNII: 65M88RW2EG) (PHLEUM PRATENSE POLLEN - UNII:65M88RW2EG)	PHLEUM PRATENSE POLLEN	100000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0832-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0832-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0832-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0832-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103879	01/15/1998	

STANDARDIZED GRASS POLLEN, SWEET VERNAL GRASS

standardized grass pollen, sweet vernal grass injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0825
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ANTHOXANTHUM ODORATUM POLLEN (UNII: 2KIK19R45Y) (ANTHOXANTHUM ODORATUM POLLEN - UNII:2KIK19R45Y)	ANTHOXANTHUM ODORATUM POLLEN	10000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0825-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0825-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0825-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0825-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103878	01/15/1998	

STANDARDIZED GRASS POLLEN, SWEET VERNAL GRASS

standardized grass pollen, sweet vernal grass injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0826
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
ANTHOXANTHUM ODORATUM POLLEN (UNII: 2KIK19R45Y) (ANTHOXANTHUM ODORATUM POLLEN - UNII:2KIK19R45Y)			ANTHOXANTHUM ODORATUM POLLEN	100000 [BAU] in 1 mL
Inactive Ingredients				
Ingredient Name			Strength	
GLYCERIN (UNII: PDC6A3C00X)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
SODIUM BICARBONATE (UNII: 8MDF5V39QO)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0826-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0826-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0826-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0826-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103878	01/15/1998		

STANDARDIZED GRASS POLLEN, RYEGRASS

standardized grass pollen, ryegrass injection, solution

Product Information			
Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0787
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
LOLIUM PERENNE POLLEN (UNII: 4T81LB52R0) (LOLIUM PERENNE POLLEN - UNII:4T81LB52R0)		LOLIUM PERENNE POLLEN	10000 [BAU] in 1 mL
Inactive Ingredients			

Ingredient Name		Strength		
GLYCERIN (UNII: PDC6A3C0OX)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
SODIUM BICARBONATE (UNII: 8MDF5V39QO)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0787-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0787-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0787-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0787-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103877	01/15/1998		

STANDARDIZED GRASS POLLEN, RYEGRASS			
standardized grass pollen, ryegrass injection, solution			
Product Information			
Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0788
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		
Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
LOLIUM PERENNE POLLEN (UNII: 4T81LB52R0) (LOLIUM PERENNE POLLEN - UNII:4T81LB52R0)	LOLIUM PERENNE POLLEN	100000 [BAU] in 1 mL	
Inactive Ingredients			
Ingredient Name	Strength		
GLYCERIN (UNII: PDC6A3C0OX)			
SODIUM CHLORIDE (UNII: 451W47IQ8X)			
SODIUM BICARBONATE (UNII: 8MDF5V39QO)			
Packaging			

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0788-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0788-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0788-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0788-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103877	01/15/1998	

STANDARDIZED GRASS POLLEN, BLUEGRASS, KENTUCKY JUNE

standardized grass pollen, bluegrass, kentucky june injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0545
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
POA PRATENSIS POLLEN (UNII: SCB8J7LS3T) (POA PRATENSIS POLLEN - UNII:SCB8J7LS3T)	POA PRATENSIS POLLEN	10000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0545-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0545-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0545-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-	50 mL in 1 VIAL; Type 0: Not a Combination		

0545-4 Product

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103873	01/15/1998	

STANDARDIZED GRASS POLLEN, BLUEGRASS, KENTUCKY JUNE

standardized grass pollen, bluegrass, kentucky june injection, solution

Product Information

Product Type	STANDARDIZED ALLERGENIC	Item Code (Source)	NDC:65044-0546
Route of Administration	PERCUTANEOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
POA PRATENSIS POLLEN (UNII: SCB8J7LS3T) (POA PRATENSIS POLLEN - UNII:SCB8J7LS3T)	POA PRATENSIS POLLEN	100000 [BAU] in 1 mL

Inactive Ingredients

Ingredient Name	Strength
GLYCERIN (UNII: PDC6A3C0OX)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65044-0546-1	5 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:65044-0546-2	10 mL in 1 VIAL; Type 0: Not a Combination Product		
3	NDC:65044-0546-3	30 mL in 1 VIAL; Type 0: Not a Combination Product		
4	NDC:65044-0546-4	50 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103873	01/15/1998	

Labeler - Jubilant HollisterStier LLC (069263643)

Registrant - Jubilant HollisterStier LLC (069263643)

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Jubilant HollisterStier LLC