DOSING TABLES

QUICK REFERENCE GUIDE

Dosage of allergenic extracts is a highly individualized matter and varies according to the degree of sensitivity of the patient, his or her clinical response, and tolerance to the extract administered during the early phases of an injection regimen. The Immunotherapy Practice Parameters (ITPP) provides the most comprehensive and up to date dosing recommendations for the industry. This guide is based on those recommendations and for the use of HollisterStier Allergy extracts.

The intent is to clearly define the volumes of extract concentrate and diluent needed to prepare a variety of 5 mL maintenance doses without having to perform calculations of your own.

ABBREVIATIONS:

w/v	weight-to-volume ratio
Amb a 1	Antigen E or AgE
U	Unit
AU	Allergy Unit
BAU	Bioequivalent Allergy Unit
HTD	Highest Tolerated Dose
NA	Not Applicable. (For NA there was no recommended dose for the category.)

TABLE 1 | MAINTENANCE DOSE

Maintenance dose targets for extracts.

EXTRACT CATEGORY	PROBABLE EFFECTIVE DOSES OR RANGES 2011 ITPP
Short Ragweed	6-12 µg of Amb a 1
AP Cat[1] (Hair or Pelt)	1,000–4,000 BAU
Dust Mites[2,3] (Dfar or Dpter)	500–2,000 AU
Northern Prairie Grasses[4] (Standard Grass Pollen)	1,000–4,000 BAU
Bermuda Grass	300–1,500 BAU
Pollen, Non-Standardized	0.5 mL of 1:100–1:200 w/v
Fungi	Highest Tolerated Dose
UF Dog[5]	15 µg Can f 1
Fire Ant	0.5 mL of a 1:100 w/v prep or 1:10 w/v extract

[1]Applies to both hair and pelt
[2]D. pteronyssinus
[3]D. farinae
[4]Kentucky Bluegrass, Meadow Fescue, Orchard, Perennial Rye, Redtop, Sweet Vernal, Timothy
[5]The ITPP have not yet been updated to include UF Dog. However, UF dog is produced at 1:650 w/v to ensure an equivalent dosage to AP Dog. Internal data is on file to support this claim.

TABLE 2 | EXTRACT VOLUMES FOR 5 mL VIALS

Extract volumes needed for 5.0 mL volume at minimum, mid-range, and maximum dose targets based on a maintenance dose of 0.5 mL.

EXTRACT STRENGTH		VOLUME OF CONCENTRATE NEEDED PER VIAL		
Category	Concentrate	Min mL	Mid mL	Max mL
Short Ragweed	200 Amb a 1 U/mL	0.30	0.45	0.60
AP Cat[1]	10,000 BAU/mL	1.00	2.50	4.00
Dust Mites[2]	30,000 AU/mL 10,000 AU/mL	0.17 0.50	0.42 1.25	0.67 2.00
Northern Prairie Grasses[2]	100,000 BAU/mL 10,000 BAU/mL	0.10 1.00	0.25 2.50	0.40 4.00
Bermuda Grass	10,000 BAU/mL	0.30	0.90	1.50
Pollens	1:10 w/v 1:20 w/v	0.25 0.50	0.38 0.75	0.50 1.00
UF Dog[3]	1:650 w/v	NA	NA	1.00

[1]Applies to both hair and pelt
[2]Also applies to dust mite mix and Northern Prairie grasses (e.g., grass mix #4) products at the same AU/mL or BAU/mL strengths
[3]UF Dog concentrate, on average, is 150 ug Can F 1 per mL. Internal data is on file to support this claim

TABLE 3 | EXTRACT VOLUME PERCENTAGES FOR 5 mL VIALS

Extract volume percentages needed for 5.0 mL or variable volume at min, mid, and maximum dose targets based on a maintenance dose of 0.5 mL.

EXTRACT STRENGTH		PERCENTAGE OF TOTAL VIAL VOLUME		
Category	Concentrate	Min %	Mid %	Max %
Short Ragweed	200 Amb a 1 U/mL	6	9	12
AP Cat[1]	10,000 BAU/mL	20	50	80
Dust Mites[2]	30,000 AU/mL 10,000 AU/mL	3 10	8 25	13 40
Northern Prairie Grasses[2]	100,000 BAU/mL 10,000 BAU/mL	2 20	5 50	8 80
Bermuda Grass	10,000 BAU/mL	6	18	30
Pollens	1:10 w/v 1:20 w/v	5 10	8 15	10 20
UF Dog[3]	1:650 w/v	NA	NA	20

[1]Applies to both hair and pelt
[2]Also applies to dust mite mix and Northern Prairie grasses (e.g., grass mix #4) products at the same AU/mL or BAU/mL strengths
[3]UF Dog concentrate, on average, is 150 ug Can F 1 per mL. Internal data is on file to support this claim

TABLE 4 | EXAMPLE 1: TREATMENT SET OF 3 ALLERGENS

Extract and glycerin content of the 5.0 mL maintenance vial represented in example 1 is based on dosing outlined in tables 2 and 3 of this guide.

EXTRACT STRENGTH		PERCENTAGE OF TOTAL VIAL VOLUME		
Category	Concentrate	Min mL	Mid mL	Max mL
AP Cat[1]	10,000 BAU/mL, 50% glycerin	1.00	2.50	4.00
Short Ragweed	200 Amb a 1/mL 50% glycerin	0.30	0.45	0.60
Timothy	100,000 BAU/mL, 50% glycerin	0.10	0.25	0.40
Total allergen volume		1.40	3.20	5.00
Non-glycerinated diluent volume		3.60	1.80	0.00
Final glycerin concentration		14%	32%	50%

[1]Applies to both hair and pelt

TABLE 5 | EXAMPLE 2: EXTRACT VOLUME FOR 5 mL MAINTENANCE VIALS

Extract and glycerin concentration of 5.0 mL maintenance vials represented in example 2 are based on dosing guidelines outlined in tables 2 and 3 of this guide.

Extract	Concentrate	Min mL	Mid mL	Max mL
Cedar	1:20 w/v, 50% glycerin	0.50	0.75	1.00
Oak	1:20 w/v, 50% glycerin	0.50	0.75	1.00
UF Dog[1]	1:650 w/v, 50% glycerin	1.00	1.00	1.00
Dust Mite	30,000 AU/mL, 50% glycerin	0.17	0.42	0.67
English Plantain	1:20 w/v, 50% glycerin	0.50	0.75	1.00
Total allergen volume, vial #1		2.67	3.67	4.67
Non-glycerinated diluent volume, vial #1		2.33	1.33	0.33
Final glycerin concentration, vial #1		27%	37%	47%
Alternaria	1:10 w/v, 50% glycerin	0.25	0.38	0.50
Aspergillus	1:10 w/v, 50% glycerin	0.25	0.38	0.50
Penicillium	1:10 w/v, 50% glycerin	0.25	0.38	0.50
Hormodendrum	1:10 w/v, 50% glycerin	0.25	0.38	0.50
Cockroach mix	1:10 w/v, 50% glycerin	0.25	0.38	0.50
Total allergen volume, vial #2		1.25	1.90	2.50
Non-glycerinated diluent volume, vial #2		3.75	3.10	2.50
Final glycerin concentration, vial #2		13%	19%	25%

[1]On average at 150 µg Can f 1 per mL

PLEASE CONSULT THE PACKAGE INSERT WHEN TREATING WITH AN ALLERGENIC EXTRACT.

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