DOSING TABLES

QUICK REFERENCE GUIDE

This guide is based on the use of HollisterStier Allergy extracts. The concentrations and recommendations fall within those defined in the JHS package inserts (PI) as well as the Immunotherapy Practice Parameters (ITPP). 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.

TABLE 1 | MAINTENANCE DOSE

Maintenance dose targets for extracts.

EXTRACT CATEGORY	PROBABLE EFFECTIVE DOSES OR RANGES	
	2011 ITPP	2013 JHS PI
Short ragweed	6-12 µg of Amb a 1	**6-12 µg of Amb a 1**
AP Cat[4]	1,000–4,000 BAU	**1,000–4,000 BAU**
Dust mites[1,2]	500–2,000 AU	**500–2,000 AU**
Northern Prairie grasses[3]	1,000–4,000 BAU	**1,000–4,000 BAU**
Bermuda grass	300–1,500 BAU	**300–1,500 BAU**
Pollen	0.5 mL 1:100–1:200 w/v	**0.5 mL 1:100–1:200 w/v**
Fungi	HTD	**HTD**
AP Dog	15 µg Can f 1	**15 µg Can f 1**
Fire ant	0.5 mL of a 1:100 w/v to 0.5 mL of a 1:10 w/v extract	**0.5 mL of a 1:100 w/v to 0.5 mL of a 1:10 w/v extract[5]**

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.

[1]D. pteronyssinus
[2]D. farinae
[3]Kentucky Blue/June, Meadow Fescue, Orchard, Perennial Rye, Redtop, Sweet Vernal, Timothy
[4]Applies to both hair and pelt

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[1]	200 Amb a 1 U/mL	0.30	0.45	0.60
AP Cat[4]	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
AP Dog[5]	1:100 w/v	NA	NA	1.00

ABBREVIATIONS:
w/v=weight-to-volume ratio;
Amb a 1=Antigen E or AgE;
U=Unit; AU=Allergy Unit;
BAU=Bioequivalent Allergy Unit;
NA=not applicable.

For NA there is no recommended dose for the category.

[1]Also applies to GS ragweed (giant+ short) products at 1:20 w/v and approx. 100-300 AgE U/mL
[2]Also applies to dust mite mix and northern prairie grasses (e.g., grass mix #7) products at the same AU/mL or BAU/mL strengths
[4]Applies to both hair and pelt
[5]On average at 150 µg Can f1 per mL

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[1]	200 Amb a 1 U/mL	6	9	12
AP Cat[4]	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
AP Dog[5]	1:100 w/v	NA	NA	20

ABBREVIATIONS:
w/v=weight-to-volume ratio;
Amb a 1=Antigen E or AgE;
U=Unit; AU=Allergy Unit;
BAU=Bioequivalent Allergy Unit;
NA=not applicable.

For NA there was no recommended dose for the category.

[1]Also applies to ragweed mix (short + giant) products at 1:20 w/v and approx. 100 AgE U/mL
[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
[4]Applies to both hair and pelt
[5]On average at 150 µg Can f1 per mL

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		14.00%	32.00%	50.00%

ABBREVIATIONS:
w/v=weight-to-volume ratio;
Amb a 1=Antigen E or AgE; U=Unit;
BAU=Bioequivalent Allergy Unit.

[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
AP Dog[1]	1:100 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		26.70%	36.70%	46.70%
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		12.50%	19.00%	25.00%

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w/v=weight-to-volume ratio;
Amb a 1=Antigen E or AgE;
U=Unit; AU=Allergy Unit;
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[1]On average at
150 µg Can f1 per mL

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

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