

Sensitivity and reproducibility of ELISA for indoor allergens

Allergen	CV's (%): ^a		Linear Range (ng/ml)	Detection Limit	
	Intra-	Inter-		(ng/ml) ^b	(ug/g) ^c
Der p 1	4.8	17.8 ^{1,4,6}	10-100	3.0	0.3
Der f 1	8.7	3.1 ^{1,4,6}	10-100	3.0	0.3
Group 2	12.1	16.1 ^{3,7}	5-30	2.0	0.2
Fel d 1	5.7	6.3 ⁵	4-40	1.0	0.1
Can f 1	TBD	TBD	1-12	1.0	0.1
Mus m 1	TBD	TBD	0.4-6	3.0	0.3
Rat n 1	TBD	TBD	2-20	0.5	0.05
Bla g 1	3.9	4.5 ²	0.01-0.5 U/ml	0.006 U/ml	0.6 U/g
Bla g 2	4.2	4.5 ²	10-100 ng/ml	2.0	0.2

TBD = to be determined

a - See references 1-7

b - See standard curves for each assay listed under *Protocols* (www.inbio.com)

c - ug allergen per gram house dust assuming samples assayed at 1/5 dilution and 100 mg dust is extracted in 2 ml buffer

References:

- Luczynska et al. A two-site monoclonal antibody ELISA for the quantification of the major Dermatophagoides spp. Allergens, Der p 1 and Der f 1. J Immunol Meths 1989;118:227.
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- Sawyer et al. Biologic pollution in infant bedding in New Zealand: high allergen exposure during a vulnerable period. J Allergy Clin Immunol 1998;102(5):765-70.
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