

MARIA® Universal Allergen Standard Certificate of Analysis

Product Code: ST-UAS
Lot Number: 39342

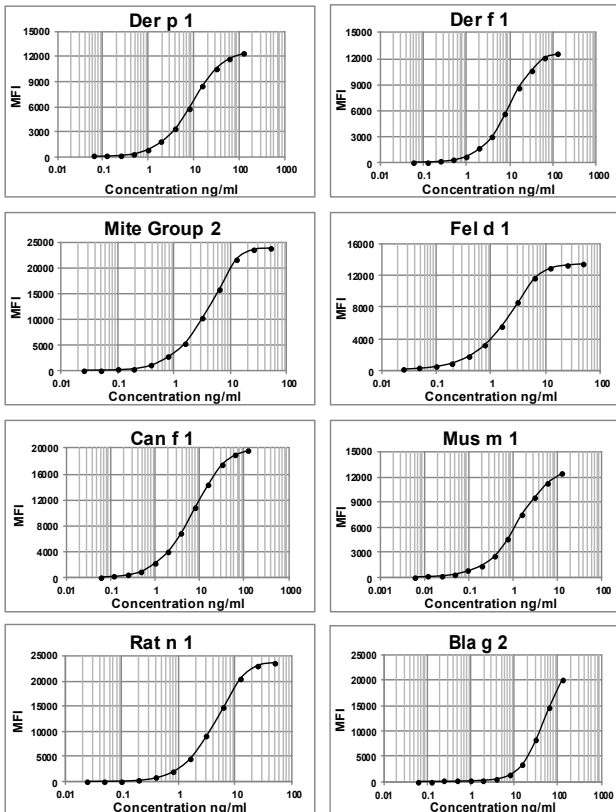
Composition:

A formulation of eight purified natural allergens (Der p 1, Der f 1, Der p 2, Fel d 1, Can f 1, Mus m 1, Rat n 1, and Bla g 2) prepared in BSA, 50% glycerol, 1X PBS, pH 7.4.

Storage/Handling:

Maintain at -20°C to 4°C upon receipt.

Control Curves for MARIA:



Allergen	Protein Measurement	Conc. (ng/mL)	LLOD (ng/mL)
Der p 1	Amino-acid analysis	2,500	0.06
Der f 1	Amino-acid analysis	2,500	0.06
Der p 2	Amino-acid analysis	1,000	0.02
Fel d 1	Amino-acid analysis	1,000	0.02
Can f 1	Amino-acid analysis	2,500	0.06
Mus m 1	Amino-acid analysis	250	0.01
Rat n 1	Amino-acid analysis	1,000	0.02
Bla g 2	Amino-acid analysis	2,500	0.98

Notes:

Universal Allergen Standard is recommended for calibration of ELISA or MARIA® allergen assays only. Not recommended for *in-vitro* antibody measurements, T cell studies, immunization purposes, or other uses.

References:

Earle C, King EM, Tsay A, Pittman K, Saric B, Vailes LD *et al*. High throughput fluorescent multiplex array for indoor allergen exposure assessment. *J Allergy Clin Immunol*. 2007;19: 428-433.

Filep S, Tsay A, Vailes LD, Gadermaier G, Ferreira F, Matsui E, King E, Chapman MD. A multi-allergen standard for the calibration of immunoassays: CREATE principles applied to eight purified allergens. *Allergy* 2012;67:235-241.

Filep *et al*, Specific allergen concentration of WHO and FDA reference preparations measured using a multiple allergen standard. *J Allergy Clin Immunol* 2012;129:1408-10.

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