

Dilutions for Intradermal Injections

ALK TECHNICAL MEMO
November 2018

ALK Medical Scientific Affairs

Many allergy practices prepare dilutions of concentrated allergenic extracts for intradermal. For your convenience a table of common intradermal dilutions is provided that shows the steps required when preparing these concentrations in your practice.

	Bulk Concentration	Suggested Intradermal Concentration	Dilution 1			Dilution 2			Dilution 3		
			Volume of Concentrate to Add	Volume of Diluent*	New Concentration	Volume of Dilution 1 to Add	Volume of Diluent*	New Concentration	Volume of Dilution 2 to Add	Volume of Diluent*	New Concentration
w/v	1:10 w/v	1:1000 w/v	0.5 mL	4.5 mL	1:100 w/v	0.5 mL	4.5 mL	1:1000 w/v	—	—	—
	1:20 w/v	1:1000 w/v	0.5 mL	2.0 mL	1:100 w/v	0.5 mL	4.5 mL	1:1000 w/v	—	—	—
	1:40 w/v	1:1000 w/v	0.5 mL	2.0 mL	1:200 w/v	1.0 mL	4.0 mL	1:1000 w/v	—	—	—
PNU	10,000 PNU	1000 PNU	0.5 mL	4.5 mL	1000 PNU	—	—	—	—	—	—
	20,000 PNU	1000 PNU	0.5 mL	0.5 mL	10,000 PNU	0.5 mL	4.5 mL	1000 PNU	—	—	—
	40,000 PNU	1000 PNU	0.5 mL	1.5 mL	10,000 PNU	0.5 mL	4.5 mL	1000 PNU	—	—	—
BAU/AU	10,000 BAU	100 BAU	0.5 mL	4.5 mL	1000 BAU	0.5 mL	4.5 mL	100 BAU	—	—	—
	100,000 BAU	100 BAU	0.5 mL	4.5 mL	10,000 BAU	0.5 mL	4.5 mL	1000 BAU	0.5 mL	4.5 mL	100 BAU

*Human Serum Albumin (HSA) is recommended as the diluent for intradermal dilutions since it provides additional stability and antigen preservation over Normal Saline with Phenol (NSP).

ALK Commitment

ALK is committed to helping Allergy Specialists maintain uniformity of care for their patients. Please do not hesitate to contact your Allergy Consultant, Customer Service (800.325.7354) or Medical Scientific Affairs (855.782.9323, science@alk.net, or submit your scientific questions to our 24/7 online helpdesk in a support ticket at: <https://alkinc.freshdesk.com>) should you have additional questions or concerns regarding ALK products.

This technical memo is not intended to replace physician judgment with respect to the clinical diagnosis and treatment of patients. All decisions regarding potential patient care are solely at the discretion of the treating physician.

References

G. Plunkett. Stability of Allergen Extracts Used in Skin Testing and Immunotherapy. *Curr Opin Otolaryngol Head Neck Surg*. 2008;16(3):285-291.