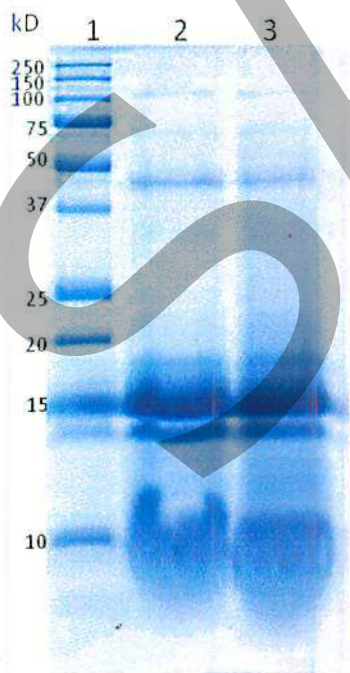


CERTIFICATE OF ANALYSIS

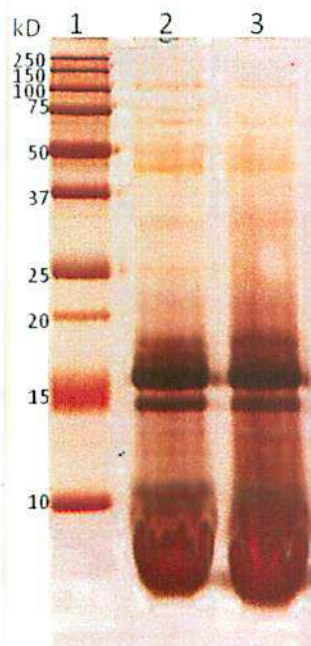
GENERAL DATA			
Article Number	04.07.85		
Article description	<i>Apis mellifera</i> , Bee venom dried		
Storage	Upon arrival -20 °C		
Production Date	Jul-2012		
Charge Number	13F26		
RAW MATERIAL / PRODUCTION PROCES			
Collection location	Central Europe		
POST HARVEST PROCESSING OF THE VENOM			
Extraction	The venom was obtained by electrostimulation of bees		
Freeze drying	The extract has been freeze dried after centrifugation		
SPECIFICATIONS + ANALYSES			
IDENTITY / PURITY			
Identity	Result	Specifications	Reference
Species	<i>Apis mellifera</i>	<i>Apis mellifera</i>	Literature
Character material	Cream colour powder	Cream colour powder	Visual determination
(BIO)CHEMICAL ANALYSES			
Analysis	Result	Specifications	Method
Allergenic pattern	Apamin: 13.2 % Mellitin: 58.5% Phospholipase A2: 24.6%	Apamin: 1-20% Mellitin: > 40% Phospholipase A2: 5-25%	HPLC assay
Protein content (mg/g)	171 597	150-750 500-1000	Bradford assay BCA assay
Protein pattern	Pictures added (page 2)	Conform IHR	SDS-PAGE gel; CBB staining, silver staining
Water content (%)	7.7	1.5 – 8	Karl Fischer

SDS-PAGE analysis

CBB Stain: 8 µg of total protein has been applied



Silver stain: 4 µg of Total protein has been applied



1: Marker, 2: 07B13 Bee venom dried, 3: 13F26 Bee venom dried