



biologics  
CERTIFICATE OF ANALYSIS  
(For research use only)

GENERAL DATA			
Article Number	02.01.71		
Article description	Der p 1, purified > 95%, Freeze Dried		
Storage	-20 °C		
Production Date	March 14, 2022		
Charge Number	22A02		
RAW MATERIAL / PRODUCTION PROCES			
Cultivation location	Groningen, the Netherlands		
Cultivation method	<i>Dermatophagoides pteronyssinus</i> whole culture on defined medium.		
POST HARVEST PROCESSING OF MITES			
02.01.65 in house extract	Extract, freeze dried after purification		
ANALYSES			
IDENTITY / PURITY			
Identity	Result	Specifications	Reference
Protein	Der p 1	Cysteine protease	Literature
Sample	Der p 1	Der p 1 and Der p 1 fragments	Literature
Material	Der p 1	White powder	Literature
(BIO)CHEMICAL ANALYSES			
Analysis	Result	Specifications	Method
Allergenic pattern Der p 1 (µg/vial)	363	t.b.d.	ELISA
Protein content (µg/vial)	454	t.b.d.	UV absorption (OD <sub>280</sub> )
Protein pattern	Picture added (page 2)	Major protein band 25 kDa	SDS-PAGE + CBB/Silver staining
Bioburden (Cfu/vial)	TSA	0	Eur Pharm method
	SDA	0	
Protease activity (U/mg)	Serine	$2.0 \times 10^{-2}$	Protein activity assay
	Cysteine	$1.6 \times 10^4$	

July 29, 2022

Head of Production

Head Quality Assurance

  
b.a. HAA

# CITEQ

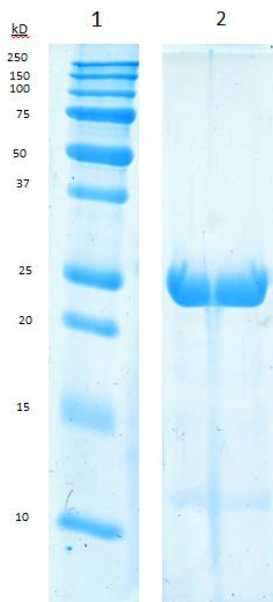
biologics

## CERTIFICATE OF ANALYSIS

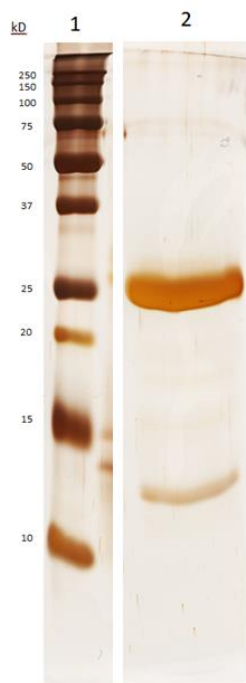
(For research use only)

### SDS-PAGE analysis

#### CBB Stain



#### Silver Stain



1: Marker, 2: 22A02