



biologics

CERTIFICATE OF ANALYSIS

(For research use only)

GENERAL DATA			
Article Number	09.01.25		
Article description	<i>Alternaria alternata</i> mycelium (CBS 103.33)*		
Storage	-20 °C		
Production Date	December 10, 2011		
Charge Number	18L16		
RAW MATERIAL / PRODUCTION PROCES			
Cultivation location	Groningen, The Netherlands		
Cultivation method	Shaken Culture in Erlenmeyer Flask at 25°C		
Source of moulds	Centraal Bureau voor Schimmelcultures (CBS)		
Inoculation	Source described, identified, selected by Centraal Bureau voor Schimmelcultures (CBS)*		
Medium	Czapek Dox Broth + 0.1% yeast extract		
POST HARVEST PROCESSING OF MOLDS			
Harvesting of mould	Mycelium/spores filtrated		
Drying	The filtrated mycelium has been freeze dried		
IDENTITY / ANALYSES			
Identity	Result	Specifications	Reference
Species	Ok	<i>Alternaria alternata</i>	Database CBS*
Character material	Ok	Brown-black lumps	Visual determination
Allergenic pattern (mg/g)	Alt a1 0.03	0.01 – 0.5	ELISA
Protein content (mg/g)	13 29	2-50 5-200	Bradford assay BCA assay
Protein pattern	Clear bands	Clear bands	SDS PAGE gel; CBB & silver staining
Blotting	Clear bands	Clear bands	Blotting Assay
Sugar content (mg/g)	37	5 – 75	Phenol-sulfuric acid method
Bioburden (Cfu/g)	SDA < 3000 TSA 2.3 x 10 <sup>4</sup>	< 1 x 10 <sup>6</sup> < 1 x 10 <sup>6</sup>	Ph. Eur.
Water content (%)	4.1	< 15	Karl Fischer determination

\* CBS, Westerdijk Fungal Biodiversity Institute, Utrecht

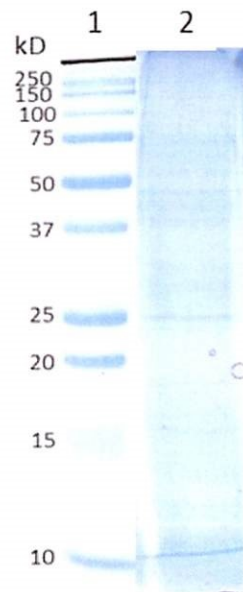
May 2, 2019

Head of Production

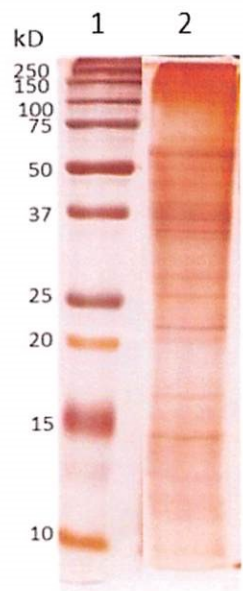
HQA

## SDS-PAGE analysis

### CBB Stain

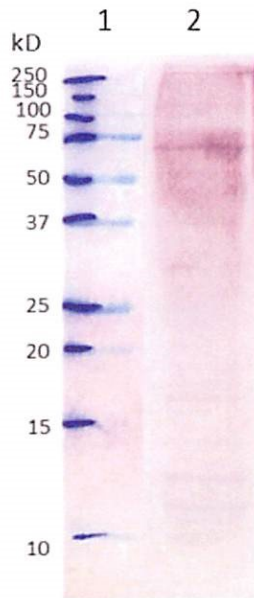


### Silver Stain



1: marker, 2: 18L16

**Immunodetection:**



**1: marker, 2: 18L16**