



VENOM ANALYSIS REPORT

COMPANY TITLE: BTG Grup Akrep Zehiri Üretimi İnşaat Toplu Tüketim Malları İthalat İhracat Sanayi Ticaret Limited Şirketi

COMPANY ADDRESS: Kadıkendi mah. 8737 Cd. Karma Sitesi D blok No: 4/p Eyyübiye-Şanlıurfa

TAX NO: 1870656596

SCORPIO NAME: *Androctonus turkiyensis*

Classified by: Prof. Dr Ersen Aydın YAĞMUR

Origin: Şanlıurfa

DELIVERY DATE OF SAMPLE: 01.11.2024

SAMPLE INFORMATION: Scorpion Venom in liquid form, 100 mg in transparent color.

SAMPLE PURITY: %100

ANALYSIS DATE: 01-07.11.2024

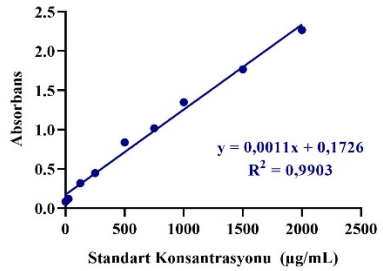
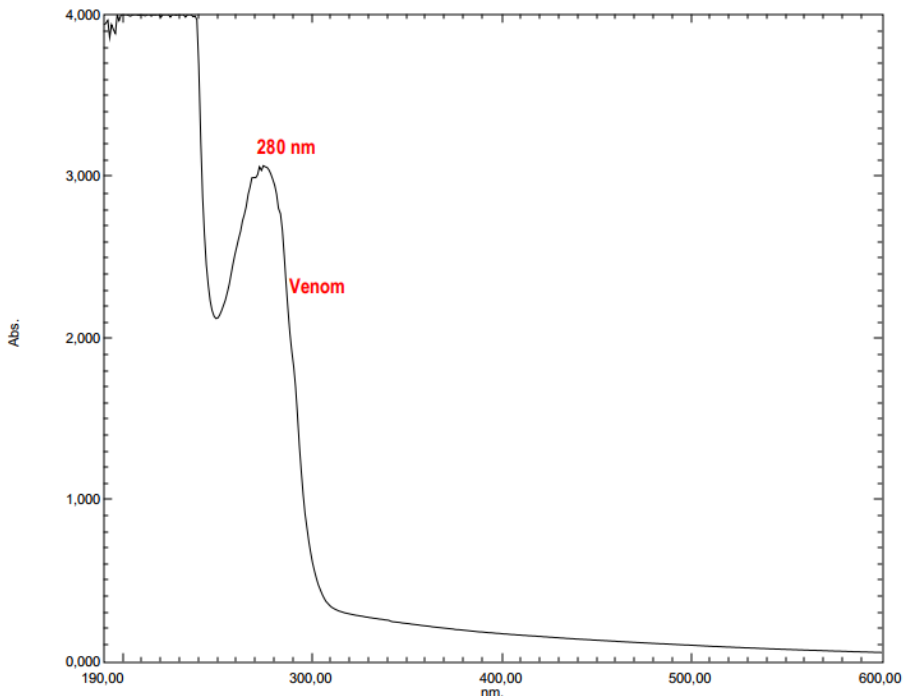
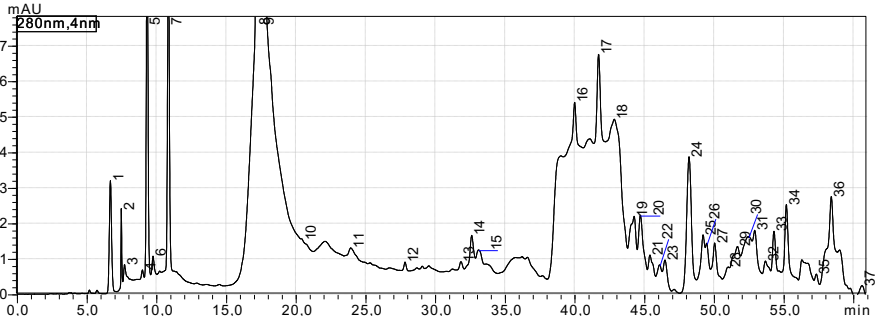
ANALYZES MADE: UV-visible Spectrophotometric Analysis, pH Analyses, Protein Concentration (Density), SDS-PAGE and HPLC, Peptide Analyses

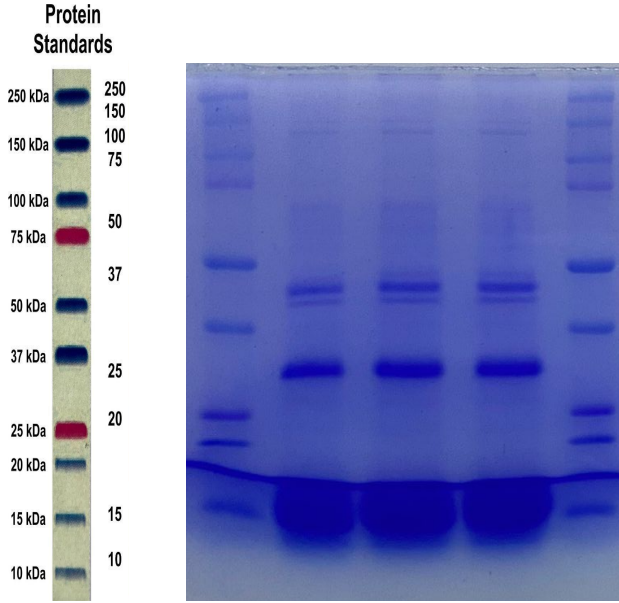
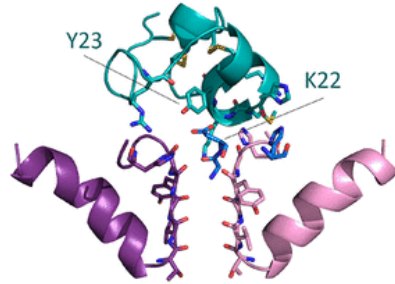
CLASSIFICATION:

Domain: Eukaryota,
Kingdom : Animalia,
Phylum : Arthropoda,
Subphylum : Chelicerata,
Class: Arachnida
Order: Scorpiones,
Family: Buthidae
Genus: Androctonus
Species: A. turkiyensis



ANALYSIS RESULTS

<p>Protein Concentration</p>	<p>The protein amount of the scorpion venom sample was calculated as 28 mg/mL.</p> 
<p>Spectrum Results</p>	<p>It has been determined that scorpion venom contains proteins in pure form and these proteins have maximum absorbance at 280 nm.</p> 
<p>pH Analyses</p>	<p>The pH value of scorpion venom was determined as 5.72.</p>
<p>HPLC Analyses</p>	<p>It has been determined that scorpion venom contains 37 different proteins and peptides.</p> 

<p>Protein Electrophoresis</p>	<p>After Electrogram analysis of scorpion venom, it was determined that it had proteins in the range of 25-10 kDa, although there was a dense protein of 37 kDa.</p> <div data-bbox="582 351 1204 952"> <p>Protein Standards</p>  </div>
<p>ANALYSIS OF SCORPION VENOM PEPTIDES</p>	
<p>α-KTx 3.6</p>	<p>- Voltage-gated potassium channels blocker, FTNVSCTTSKECWSVCQRLHNTSRGKCMNKKCRCYS rKv1.1, rKv1.2, and hKv1.3</p> <div data-bbox="850 1263 1246 1545">  </div>

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