

ANALYSIS REPORT

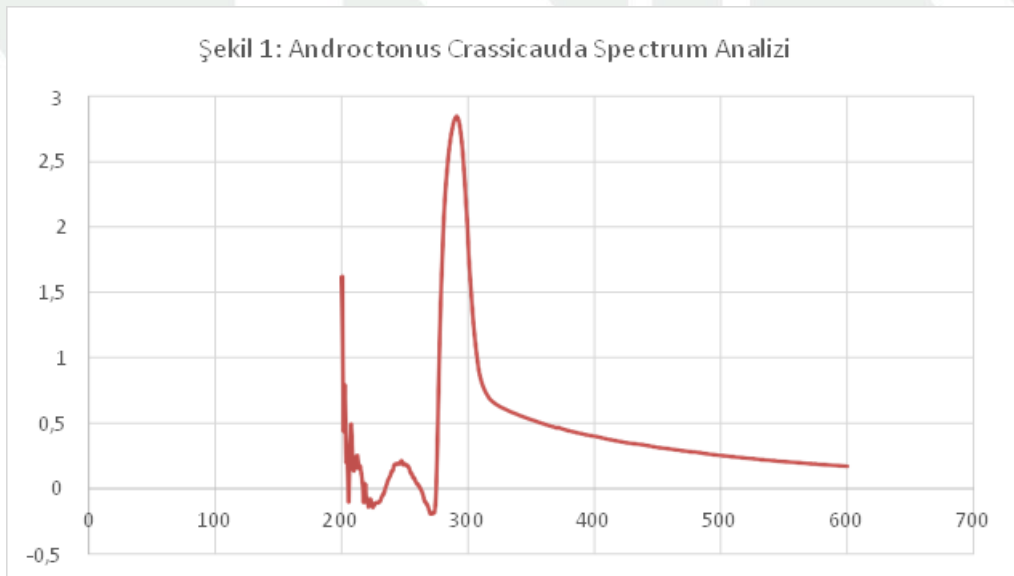
Report No:	VNM0043
Company Name	İttihad İlaç Sanayi Ticaret Limited Şirketi
Description of Tested Product	Scorpion Venom , Androctonus Crassicauda
Sample Registration No and Acceptance Date:	0043-12.01.2025
Number of Samples	-
Date of Tests	13.01.2025-15.01.2025

Sample Preparation

The venoms of Androctonus crassicauda was prepared dried at -110°C by vacuum lyophilizer.

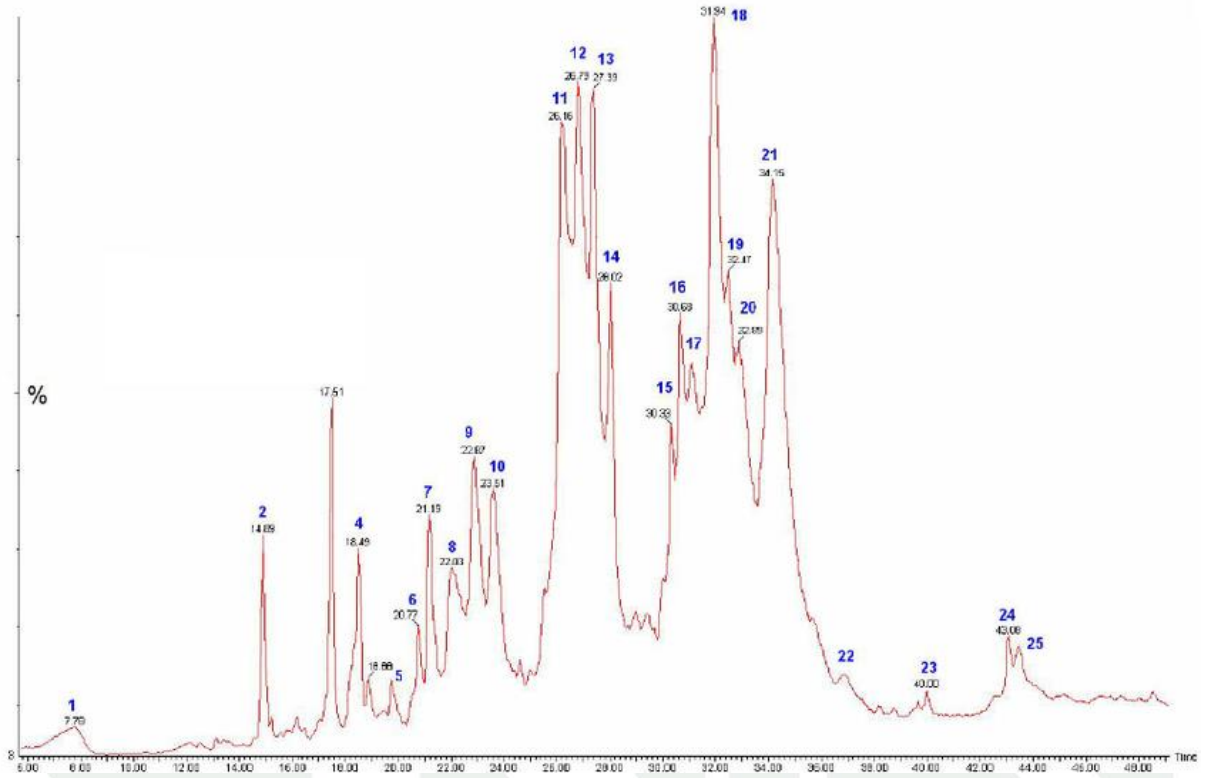
Spectrum Results

The venom was obtained from Androctonus crassicauda species scorpion. Spectra analysis of venom prepared as 1 mg/mL. The analysis was performed Varioskan Flash Multimode Spektrofotometre device. 200 nm - 600 nm wave lengths was used for scanning. The peak of the venom-specific was achieve at 280 nm . For this reason, HPLC analyzes were measured based on 280 nm.



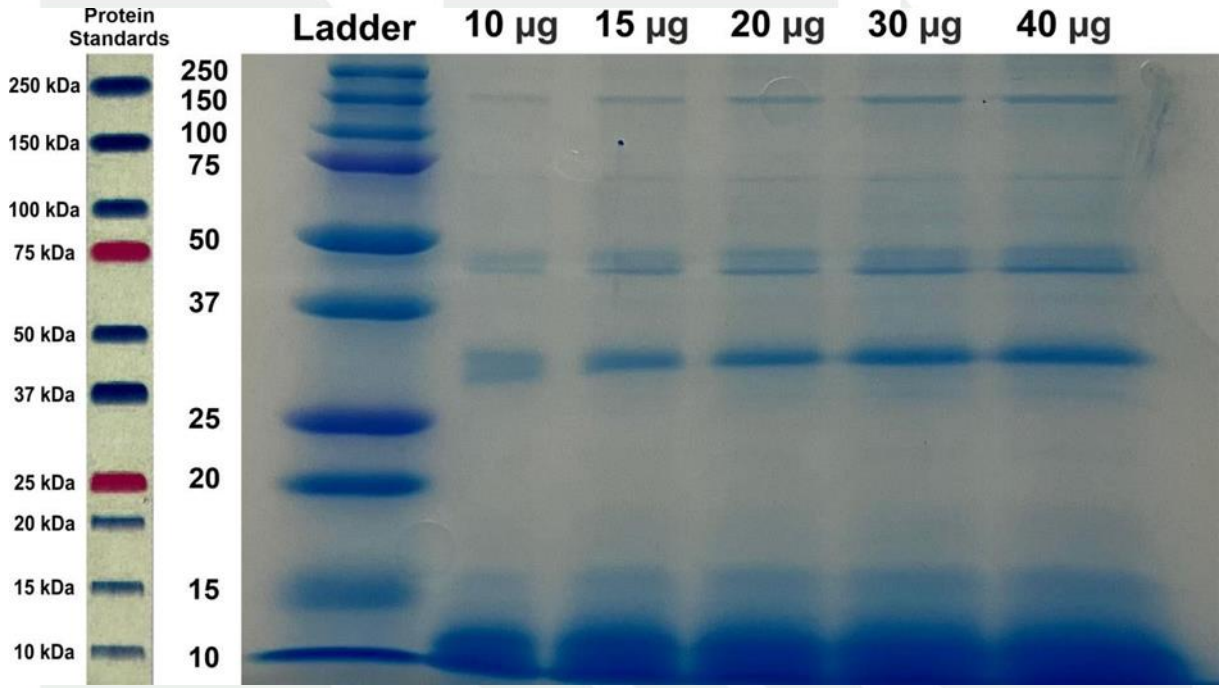
HPLC Analysis

Powdered venoms were loaded into the HPLC (High Performance Liquid Chromatography) instrument at a concentration of 1000 ppm. Reverse phase column was used in the studies. Solvent B was made in a 0-60% low gradient program with a flow rate of 1mg/mL. The spectrum was taken to determine the maximum absorbance of the proteins in the venom. In line with these results, HPLC analysis was performed at 280 nm wave length. Proteins were detected at different times. As a result of the analysis, 25 different proteins were detected in the venom of *Androctonus Crassicauda*.



SDS-PAGE Analysis

Electrophoretic separation of *Androctonus crassicauda* venom was performed with a vertical electrophoresis system consisting of 4-15% acrylamide under reducing conditions. **1st Lane:** Molecular Weight Standard (10-250 kDa), **2nd Lane:** 10 µg Androctonus Crassicauda venom, **3rd Lane:** 15 µg Androctonus Crassicauda venom, **4th Lane:** 20 µg Androctonus Crassicauda venom, **5th Lane:** 30 µg Androctonus Crassicauda venom, **6th Lane:** 40 µg Androctonus Crassicauda venom. As a result of SDS-PAGE analysis, proteins of different sizes were detected in Androctonus Crassicauda venom.



DVM Salih Salar

