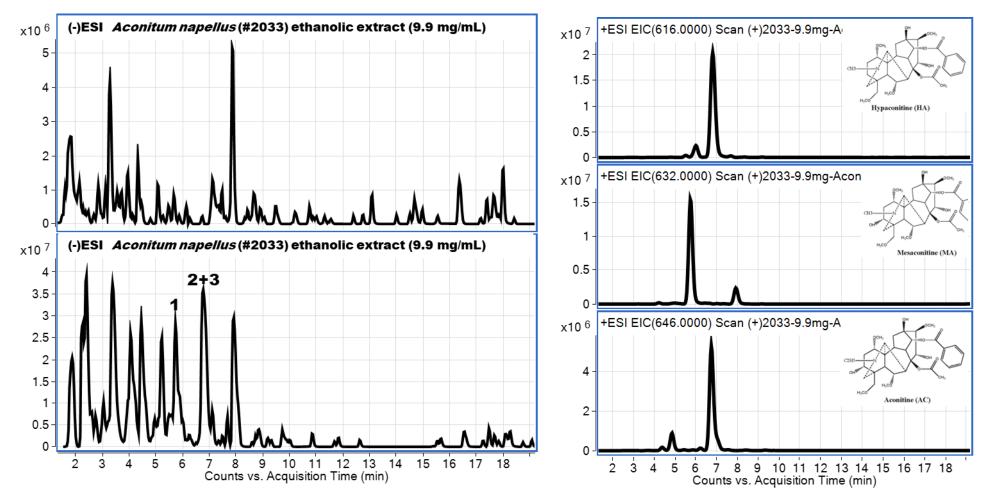
## **Chemical Analysis using LC-QToF**

## **Plant Details:**

NCNPR#	Accepted name	Family	Part	Collected by	TAXID (UoM)	Locality
						Williams Warehouse, old
2033	Aconitum napellus L.	Ranunculaceae	Mixed parts	NA	TAX0001017	pharmacognosy department
						collection

## Aconitum napellus L.

- diester-diterpene Aconitum alkaloids, viz., mesaconitine ( $C_{33}H_{45}NO_{11}$ , m/z 632.3065 (frag. 572.2848) [1], hypaconitine ( $C_{33}H_{45}NO_{10}$ , m/z 616.3116 (frag. 556.2918) [2], and aconitine ( $C_{34}H_{47}NO_{11}$ , m/z 646.3222 (frag. 586.3019) [3], are highly toxic compounds commonly present in the aconite roots [1].
- Tentative identification of these **THREE compounds** is based on accurate mass analysis (LC-QToF).



[1] Tang WT, Wong SK, Law TY, Pang KC, Sin D, Tam YK. Method for the determination of Aconitum alkaloids in dietary supplements and raw materials by reversed-phase liquid chromatography with ultraviolet detection and confirmation by tandem mass spectrometry: single-laboratory validation. J AOAC Int. 2006 Nov-Dec;89(6):1496-514. PMID: 17225594; PMCID: PMC2596947