

# Chemical Analysis using LC-QToF

## Plant Details:

NCNPR #	Accepted name	Family	Part	Collected by	TAXID (UoM)	Locality
2349	<i>Tripterygium wilfordii</i> Hook. f.	Celastraceae	Root	Trish	TAX0070010	Dongyang District Zhejiang Province, China

## ***Tripterygium wilfordii* Hook. f.**

- *Tripterygium wilfordii* Hook. F. (TWHF), commonly known as ‘Thunder God Vine’ (‘Lei-gong-teng’ in Chinese), and the presence of the sesquiterpene pyridine alkaloids have immunosuppressive, antitumor-promoting and cytotoxic, antiviral, and anti-inflammatory properties.
- Sesquiterpene pyridine alkaloids are a large group of highly oxygenated sesquiterpenoids, all that based on a core C15 skeleton known as dihydro-β-agarofuran.
- **Five tripterygium pyridine alkaloids: triptolide** (C<sub>20</sub>H<sub>24</sub>O<sub>6</sub>, *m/z* 361.1646) [1], **wilforgine** (C<sub>41</sub>H<sub>47</sub>NO<sub>19</sub>, *m/z* 858.2815) [2], **wilforine** (C<sub>43</sub>H<sub>49</sub>NO<sub>18</sub>, *m/z* 868.3022) [3], **wilfortrine** (C<sub>41</sub>H<sub>47</sub>NO<sub>20</sub>, *m/z* 874.2764) [4] and **wilfordine** (C<sub>43</sub>H<sub>49</sub>NO<sub>19</sub>, *m/z* 884.2972) [5].
- Tentative identification of these **five compounds** is based on accurate mass analysis (LC-QToF).

