

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Alkaloids in *Atropa belladonna* root.

File Name: Supplementary Data 2

Description: Tropine, littorine, hyoscyamine and scopolamine levels in *Atropa* roots.

File Name: Supplementary Data 3

Description: UHPLC-MS/MS analysis of substrates and enzymatic products in transient assays.

File Name: Supplementary Data 4

Description: Transient assays in *Nicotiana benthamiana*.

File Name: Supplementary Data 5

Description: Oligonucleotide primers.

File Name: Supplementary Data 6

Description: NMR data.