Supporting Information to:

Seasonal Changes and Effect of Harvest on Glucosinolates in
Isatis leaves

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Fig. 1S Concentration of epiprogoitrin (1), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph.

Fig. 2S Concentration of progoitrin (3), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph.
**Fig. 3S** Concentration of gluconapin (4), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph. The compound was below detection limit in the accessions “Jenaer Waid” and “Thüringer Waid”.

**Fig. 4S** Concentration of 4-hydroxyglucobrassicin (6), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph. The compound was below detection limit in the accession “Thüringer Waid”.

Fig. 5S Concentration of sulfoglucobrassicin (5), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph.

Fig. 6S Concentration of glucobrassicin (8), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph.
Fig. 7S Concentration of neoglucobrassicin (9), in shock frozen, freeze-dried leaves of *Isatis tinctoria* accessions. The dates of sampling are indicated in the graph. The compound was below detection limit in the accessions “Jenaer Waid” and “Thüringer Waid”.

Fig. 8S Concentration of epiprogoitrin (1), progoitrin (3), gluconapin (4) and 4-hydroxyglucobrassicin (6) in shock frozen, freeze-dried leaves of *Isatis indigotica*. The dates of sampling are indicated in the graph.
Fig. 9S Concentration (µmol/g) of epiprogoitrin (1) in leaf samples of *Isatis tinctoria* accessions “Jenaer Waid” (JW) and “Thüringer Waid” (TW) at the indicated harvest dates, compared to epiprogoitrin concentration in leaf material from plants which were subjected to periodical mowing (JW cut) and (TW cut).

Fig. 10S Concentration (µmol/g) of progoitrin (3) in leaf samples of *Isatis tinctoria* accessions “Jenaer Waid” (JW) and “Thüringer Waid” (TW) at the indicated harvest dates, compared to progoitrin concentration in leaf material from plants which were subjected to periodical mowing (JW cut) and (TW cut).
Fig. 11S Concentration (µmol/g) of glucobrassicin (8) in leaf samples of *Isatis tinctoria* accessions “Jenaer Waid” (JW) and “Thüringer Waid” (TW) at the indicated harvest dates, compared to glucobrassicin concentration in leaf material from plants which were subjected to periodical mowing (JW cut) and (TW cut).