Supporting Information (revised version of August 22, 2006; replaces former version which contained errors) to

Anti-Inflammatory and Antiallergic Activity *in vivo* of Lipophilic *Isatis tinctoria* Extracts and Tryptanthrin

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**History**

Parts of the results were presented in the 50th Annual Congress of the Society for Medicinal Plant Research (p. 94), Barcelona, 2002
Chromatographic Fingerprint of Extracts and Quantitative Analysis

Chromatographic fingerprints were determined on a Agilent 1100 system with binary high-pressure mixing pump, column oven and PDA, coupled to a Gilson 215 liquid handler (Gilson, Middleton, USA) and a Esquire 3000plus ion trap mass spectrometer (Bruker Daltonic, Bremen, Germany). The conditions for were as follows:

**Column:** Sunfire C-18 (3.5 µm; 3.0 × 150 mm; Waters) equipped with a precolumn.

Solvent system: A: 0.1% aqueous HCOOH; B: MeCN; gradient: 5 – 100% B in 30 min, then 5 min 100% B; flow rate: 0.5 mL/min (no split)

**Detection:** MS: m/z 200 – 600; 0 – 25 min: positive ion mode (capillary voltage: −4500 V; capillary end voltage: 109.8 V; skimmer voltage 65.0 V); 25 – 35 min: negative ion mode (capillary voltage: +4500 V; capillary end voltage: −111.8 V; skimmer voltage −40.0 V); nebulizer gas pressure: 30 psi; dry gas flow: 10 L/min; dry temperature: 300 °C.

UV: 200 – 700 nm

**References:** Stock solutions: 10 mg/mL in DMSO (indolinone, tryptanthrin, linolenic acid); 5 mg/mL (indirubin, indigo).

The linearities of the calibration curves determined with 10 dilutions were as follows:

- indolinone R² = 0.9998;
- tryptanthrin R² = 0.9999;
- indigo R² = 0.9999;
- indirubin R² = 0.9999;
- δ-linolenic acid R² = 0.9976;

**Extracts:** Stock solutions: 5 mg/mL in MeOH-DMSO 1:1. Dilutions to final concentrations: 1.0, 0.1, 0.02 (only ASE) mg/mL

**Injection volume:** 20 µL.

Analyses were carried out in triplicate. Results and SD are given in the Material and Methods. Indolinone and δ-linolenic acid were quantified by ESI-MS of their base peak in the positive (indolinone) and negative modes (δ-linolenic acid). Tryptanthrin, indirubin and indigo were analysed by UV at 254, 550 and 600 nm, respectively.
HPLC-UV/MS Analysis of the SFE extract

Compounds: 2 indolinone (trans), 3 tryptanthrin, 4 indigo, 5 indirubin, 6 linolenic acid

HPLC-UV/MS Analysis of the ASE extract

Compounds: 2 indolinone (trans), 3 tryptanthrin, 4 indigo, 5 indirubin, 6 linolenic acid