

Methods used for the preparation of extracts for the *Phytotitre* plant extract library

Polar (aqueous) extracts are prepared as follows:

- 1) Dry fresh plant material in dessicator (typically at 37°C for 12-18 h)
- 2) Add 25 g dried plant material to 250 ml boiling distilled water
- 3) Grind slurry using mortar and pestle
- 4) Steep overnight in dark at 4°C
- 5) Filter product using muslin then Whatman number 1 chromatography paper
- 6) Freeze dry filtrate to dryness
- 7) Store freeze-dried powder at -80°C
- 8) Resuspend at 10 mg/ml in 100% dimethyl-sulphoxide (DMSO)
- 9) Discard insoluble materials

Non-polar (di-chloromethane) extracts are prepared as follows:

- 1) Dry fresh plant material in dessicator (typically at 37°C for 12-18 h)
- 2) Add 10 g crushed plant material to 100 ml room temperature 100% dichloromethane
- 3) Steep overnight at room temperature in dark
- 4) Use a rotary evaporator to remove most dichloromethane
- 5) Evaporate residual dichloromethane in evaporation dish in fume cupboard
- 6) Resuspend dried product in 40 ml 100% dimethyl-sulphoxide (DMSO)
- 7) Discard insoluble materials



Caithness Biotechnologies Ltd, 72 Boston Road, Leicester, United Kingdom, LE4 1HB.

Tel: +44 (0) 116 229 3083

Web: www.caithnessbiotechnologies.com

Email: contact@caithnessbiotechnologies.com