



From Sample to Chromatography

2 X-TRACTION® For Extraction



3 D-EVA Concentration For the sensor controlled evaporation of extracts



4 DEXTech Product Family Sample preparation for all types of PCB and dioxin analysis

DEXTech Columns
Universal and
SMART



5 D-EVA Concentration For the sensor controlled evaporation to a few µL



1 Sample Preparation

- Sample intake / weigh in 5 to 10 g
- Homogenization with PAA / Hydromatrix
- Transfer into the extraction cell

2 Extraction: X-TRACTION

- Sample intake
- Each cycle 20 min inclusive selfcleaning
- Up to 6 modules/extractions in parallel

Collection in

- 60 mL, 120 mL – bottle
- 140 mL – Centrifuge tubes for D-EVA (max. 90 mL capacity)

3 Evaporation: D-EVA

- Up to 11 × 90 mL in parallel without supervision
- Final volume approx. 1 mL
- n-hexane within approx. 40 min
- Toluene within approx. 60 min
- Manual transfer without rinsing to 15 mL Vials
- Add clean-up standard solution (n-Hex/Tol)
- Fill up to approx. 10 mL with n-hexane

4 Clean-up: DEXTech Pure / Plus and 16

- Fraction 1 in 40 mL centrifuge tubes containing PCB in 24 mL n-hexane/DCM
- Fraction 2 in 15 mL centrifuge tubes containing PCDD/F in 10 mL toluene

5 Evaporation: D-EVA

- Up to 23 x PCB or 26 x PCDD/F in parallel without supervision
- PCB within approx. 30 min to approx. 200-300 µL
- PCDD/F within approx. 40 min to 30-100 µL
- Manual transfer without rinsing to GC Vials with Insert
- Blowing down with nitrogen if necessary
- Add syringe standard solution

6 Ready for analysis

- 6 samples in parallel
- within 5 hours
- manual handling approx. 15 min