

# KF Application Note No. K- 15

**Title:** Water in sweet liquorice

**Summary:** The water content of sweet liquorice is determined according to Karl Fischer. To dissolve the sample a mixture of methanol and formamide is used as solvent and a high-frequency mixer as stirring device.

**Sample:** Sweet liquorice

**Sample Preparation:** Cut up the sample into small pieces.

**Instruments and Accessories:** 701 KF Titrino or 720 KFS Titrino, 703 Titration Stand, printer, Polyttron PT 1200 Disintegrator

**Analysis:** Pour 50 mL solvent mixture into the titration vessel and condition it. Wait for a steady drift below 10 ug/min. Add ca. 200 mg sample using a weighing spoon (the exact sample mass is determined by difference weighing). Start the PT 1200 Disintegrator during the extraction time. Carry out at least a triplicate determination.

**Reagents:**

Solvent: solvent mixture: volume ratio methanol : formamide = 2 : 1

Titration: Hydranal Composite 5 (Riedel-de Haën)

**Results:** AVG(8) = 15.45 +/- 0.38 % water

**Settings:** 701 KF Titrino

>titration parameters

extr.time	120 s
stop crit.:	drift
stop drift	20 uL/min

>preselections

conditioning:	on
req.smpl size:	on
report:	full