



# Urinary calculi analysis

## Reagent kit for determination of components of urinary calculi

- Semi-quantitative determination
- Measurement of most important components in order to classify calculi
- For routine use
- Good correlation to infrared spectrometry and X-ray examination
- Economic alternative - no expensive equipment needed

**Specimen:**

Urinary calculi, collected or excised bladder stones or kidney stones

**Measured components:**

- Calcium
- Oxalate
- Phosphate
- Magnesium
- Ammonium
- Uric acid
- Cystine
- Carbonate (qualitative)

**Derived compounds:**

- |  |            |                              |
|--|------------|------------------------------|
| ▪ $\text{CaC}_2\text{O}_4 \times \text{H}_2\text{O}$     | Whewellite | Calcium oxalate              |
| ▪ $\text{MgNH}_4\text{PO}_4 \times 6 \text{H}_2\text{O}$ | Struvite   | Magnesium ammonium phosphate |
| ▪ $\text{CaHPO}_4 \times 2 \text{H}_2\text{O}$           | Brushite   | Calcium hydrogen phosphate   |
| ▪ $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$           | Apatite    | tri-Calcium phosphate        |
| ▪ Ammonium urate   |            |                              |
| ▪ Uric acid  |            |                              |
| ▪ Cystine  |            |                              |

**Method**

Semiquantitative measurement.

Titrimetric determination of calcium.

Colorimetric determination/visual assessment of oxalate, phosphate, magnesium, ammonium, uric acid, and cystine.

Qualitative determination of carbonate.

**Order information**

Cat. No. 1 3139 99 90 351

Reagent kit for 100 determinations of each component