Report of Quantitative Analysis of Urolith (Approximate Percentages)

Mineral Analysis of Sample

**Nidus:** No measureable components

**Body:** Calcium Oxalate Monohydrate: 45%
Calcium Oxalate Dihydrate: 55%

**Shell:** No measureable components

**Surface:** No measureable components

Recommendations to minimize recurrence:
**Canine Calcium Oxalate**

Diagnostics:
- Serum calcium. Investigate causes for hypercalcemia, when present.
- Genetic test for hypercalciuria type 1 in dogs < 3 years old

Treatment:
- Potassium citrate if urine pH is consistently <6.5 (starting dose: 75mg/kg q12-24h).
- Correct hypercalcemia based on cause (e.g. parathyroidectomy for primary hyperparathyroidism)
- Hydrochlorothiazide with highly recurrence stones (2mg/kg q12-24) in normocalcemic dogs.

Nutritional:
- Low protein/sodium foods that do not overly acidify urine (e.g. c/d multicare, g/d, i/d low fat, others). Feed canned therapeutic foods or add water to achieve a urine specific gravity <1.020

Comments
Location: Bladder
Specimen consists of multiple intact urolith(s). The sample was submitted dry.

Detailed recommendations can be found here: [http://z.umn.edu/mnurolithRX](http://z.umn.edu/mnurolithRX)

Support from Hills Pet Nutrition, veterinarians, and pet owners make this analysis possible.
Your continued support is needed: [Give Now](http://z.umn.edu/mnurolithRX).