

TK feline cancer panel

For the differential diagnosis and monitoring of intestinal lymphosarcoma in cats



Clinical Use

To be used for the differential diagnosis of intestinal LSA versus IBD in cats. Useful for the monitoring of disease progression and response to treatment.

Reference Ranges

TK1 (U/L)

Normal	≤ 7.5
Positive	7.6 - 14.0
High Positive	≥ 14.1

f-HPT (mg/dL)

Normal	≤ 64.9
Low	65 - 140
High	≥ 140.1

Neoplasia Index (index)

Negative	≤ 5.5
Positive	5.5 - 8.0
High Positive	≥ 8.1

Interpretative Information

TK HPT

Lymphosarcoma or other cancer

TK HPT

Inflammatory Disease

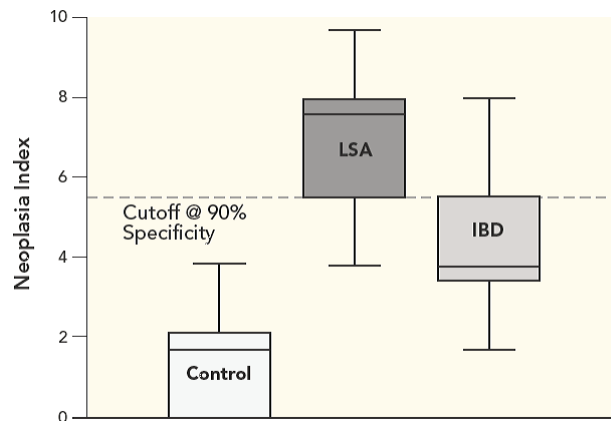
TK HPT

Normal

Clinical Background

Gastrointestinal disorders such as inflammatory bowel disease (IBD) and intestinal lymphoma (LSA) are commonly encountered in feline medicine. The challenge with these two similarly presenting diseases is how to quickly distinguish between the two.

TKFELINE CANCER PANEL combines the information obtained from two independent measures of cellular irregularity; abnormal cell division and systemic inflammation. Thymidine kinase type 1 (TK1) is a measure of dysregulated cellular proliferation – a hallmark of cancer. Haptoglobin (HPT) is elevated in the presence of systemic inflammatory disease. United through the Neoplasia Index (NI), the test panel provides objective evaluation for disease.



The panel is useful for monitoring treatment and disease progression. For patients undergoing therapy, results from the cancer panel can quickly indicate that the patient is responding to the treatment protocol, as indicated when both TK1 and HPT decline from the initial pretreatment assessment. With resistance to therapy, TK1 and HPT will be unresponsive and remain elevated. Upon disease recurrence, TK1 and HPT will elevate from baseline. Retesting intervals are recommended at 4-8 week intervals.

Methodology Chemiluminescent and Sandwich Immunoassay

Units (Range) TK1 U/L (0.5 -100 U/L)
HPT mg/L (0.5-500 mg/dL)
NI index (0-10)

Sample Type / Volume Serum ≥ 1mL
SST tube / separate and freeze within 45 min

Interferences Gross hemolysis
Gross lipemia

Stability Room Temp: 1 hour
4 °C: 4 hours
-20 °C: 30 days