Glyphosate Test

VDI Lab Services
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PATIENT NAME:	**Phoenix Smith**	**MRN:**	**1101427**	**VETERINARIAN:**	
SPECIMEN ID:	**176648**	DRAW DATE:	18-Jul-23	FACILITY:	
SPECIES:	Canine	RECEIVED DATE:	19-Jul-23		
GENDER:	Male Neutered	REPORT DATE:	27-Jul-23		
AGE:	1.3	SAMPLE TYPE:	Urine		
WEIGHT:	114.8 lb				
BREED:	Great Pyrenees				

Background

Glyphosate is the most widely used herbicide on the planet. Glyphosate actively disrupts bacterial populations, intensifies pathogens, and diminishes beneficial organisms, as well as disrupts endocrine activity and has cytotoxic effects on numerous cell types.

Effective Glyphosate Level*

Historical

Elevated

18.6

ppb (ng/mL)

Normal: ≤ 14

Glyphosate

Historical

17.5

ppb (ng/mL)

AMPA

Historical

0.7

ppb (ng/mL)

Comments

Certain foods that contribute significantly to the overall glyphosate burden in animals. Foods desiccated with glyphosate pre-harvest, such as dried beans of grains, pose the highest risk. Genetically modified foods like corn, soy, and sugar beets follow closely behind. It's important to note that meats, milk, dairy products, and eggs, except liver, have been found to have low levels of glyphosate.

By implementing dietary changes, a notable reduction in glyphosate levels should occur within a week. Testing urine, fur, foods, and supplements are highly recommended to closely monitor contamination levels and track the progress in pesticide reduction.

Under certain situations, supplements may be used to alleviate the inflammatory effects of glyphosate exposure and restore vital microflora balance.

Recommended Action

1. Identify and remove source: Dietary or Environment
2. Retest 2-3 weeks after source is removed to confirm levels are dropping.

Limits	LOQ	LOD
Glyphosate	0.05	0.02
AMPA	0.05	0.013

Trace = Between LOQ & LOD
Not Detected = Below LOQ

**Effective Glyphosate Level is calculated according to Food and Agriculture Organization (FAO) method where total glyphosate residue is the sum of the weight of glyphosate + 1.5 × the weight of its metabolite AMPA. Glyphosate, AMPA and effective Glyphosate levels above the LOQ are normalized using specific gravity. All values are based on equipment and reference materials that are traceable to ISO 17025 compliant calibrations. Results apply to the sample as received and relate only to the sample which is tested "as is."*