

Summary of the Validation Results - Qualitative Detection of Pesticides in Tissues

The following information is based upon validation experiments conducted in tissues from 07/30/2019 - 08/06/2019.

Limit of Detection for Tissues:

The limit of detection was tested in three different lots of tissues extracted 3 times.

	<u>GC/ECD</u>	<u>GC/MS</u>
<u>Organochlorines</u>		
Lindane (g-BHC):	5 ug/g	5 ug/g
Aldrin	5 ug/g	5 ug/g
Endrin	5 ug/g	10 ug/g
Endrin Aldehyde	5 ug/g	10 ug/g
4,4'-DDT	5 ug/g	5 ug/g
<u>Carbamates</u>		
Carbaryl	na	5 ug/g
Carbofuran	na	5 ug/g
Propoxur	na	5 ug/g
<u>Organophosphates</u>		
Chlorpyrifos	10 ug/g	5 ug/g
Diazinon	na	5 ug/g
Fenchlorphos	na	5 ug/g
Parathion	na	5 ug/g
Prophos	na	10 ug/g

Selectivity (Interferences) for Tissues:

Selectivity was evaluated by analyzing 10 tissue samples. No interferences were noted.

Tissue samples were homogenized 1:1 with deionized water and centrifuged to remove liquid layer. Liquid layer was extracted via SLE cartridges, eluted with methylene chloride, and reconstituted with acetone. Samples were analyzed by GC/ECD and GC/MS (EI). Selectivity was evaluate by analyzing 10 tissue samples. No interferences were noted. The LOD's for the organochlorines, carbamates, and organophosphates (see table above).

