C71 PESTICIDES IN CANNABIS

1.0 Sample Reception

1.1 This PT is provided as two ampoules containing separate spiking solutions (C71-1 and C71-2) and two vials each containing 3.00 g of blank cannabis flower (sieved and homogenized).

1.2 Upon receipt samples are to be checked for deficiencies and stored as per your laboratory's storage protocol for this type of sample.

1.3 Inquiries regarding samples and their shipment may be directed to:

Phenova
Tel: (303) 940-0033
Email: AndreaLg@phenova.com

PT Canada
Tel: (613) 233-5464
Email: programofficer@ptcanada.org
Email: nlewis@ptcanada.org

Inquiries should be made by email. When reporting damage upon receipt, please provide a picture of the damaged samples. Please include your PT Canada laboratory number on all correspondence.

2.0 General Information

2.1 The blank cannabis matrix has been sieved to <600 micrometers (#30 sieve). Each of the two blank cannabis matrix vials provided contain 3 grams. The matrix in each of the 3 gram blank vials is the same material.

2.2 Prior to extraction and subsequent analysis a measured amount of liquid from the C71-1 ampoule is spiked onto a weighed amount of blank cannabis matrix in your extraction vessel/tube. This process is repeated with the C71-2 ampoule using the blank matrix. The end result is two spiked samples ready for extraction and analysis. If more than one extraction method is used to cover all of the analytes, additional blank cannabis amounts are to be spiked. See section 3.0 for detailed spiking instructions. Unused blank cannabis vials may be used for blank determination or internal matrix spiking.

2.3 After spiking, each sample will contain approximately 50%-150% around the Canadian Action Levels for dried flower unless the analyte was not included in the spiking solution.

3.0 Sample Preparation

3.1 Warm the spiking solution ampoule to room temperature.

3.2 Weigh out 1.0g of the blank cannabis matrix into your extraction vessel or tube typically used for pesticide in cannabis extractions.

3.3 Carefully snap the top off the C71-1 ampoule, and using a gastight syringe, spike exactly 100 µL of the concentrate directly onto the matrix weighed in the extraction vessel/tube. Repeat this process using another weighed amount of blank cannabis matrix in a second extraction vessel/tube and the ampoule labeled C71-2.

3.4 The resulting spiked samples are now ready for extraction and analysis.

3.5 PLEASE NOTE that if your lab typically uses a smaller amount of material for extraction and analysis for pesticides, you may adjust the weight of the blank cannabis matrix AS LONG AS you proportionally adjust the spiked amount of the C71-1 and C71-2 concentrates. As an

example, if your lab typically extracts 500mg for pesticides, you can weigh out 500mg of the blank matrix and spike using **50 µL** of the concentrate.

3.6 Due to the instability of some pesticides on the cannabis flower matrix, it is suggested that you extract the PT immediately after spiking.

4.0 Sample Analysis

4.1 Refer to the PTC Catalogue for approximate sample concentrations.

4.2 Proceed with testing using your routine analytical method.

5.0 Reporting Results

5.1 Results must be reported by midnight of the study deadline in the PTC portal.

5.2 For this PT, assume 1.00 g sample size when calculating and reporting results. This will be correct if you used a smaller weight of blank cannabis matrix AND a proportional spiking amount. As well, assume 0% moisture, no dry weight adjustment is necessary when reporting results.

5.3 If the analyte is non-detect please report as <### (e.g., <0.01).

5.4 Report results in µg/g.

6.0 Safety

6.1 The PT samples are designed for use by laboratory professionals familiar with cannabis samples and potentially hazardous materials.