CANNABINOIDS LEVEL 2

WHOLE BLOOD TOXICOLOGY CONTROL

I. INTENDED USE:

Many analytes can be measured in patients by using analytical test methods. The UTAK Cannabinoids Level 2 is for use as a quality control material for measuring the levels of THC in whole blood. It is intended for use on a continuous basis so that a statistical evaluation of testing performance can be obtained.

II. SUMMARY AND PRINCIPLES:

Several different techniques are used for evaluating or estimating the variance of results. The three subjects summarized below must be considered with any test method.

1. PREVENTIVE MEASURES:

These measures are usually contained in the design of the test method and include consideration for reagents, equipment, and operator errors. These measures are designed to minimize variance.

2. QUALITY CONTROL MEASURES:

When a quality control sample is analyzed at the same time and in the same manner as a patient specimen, an estimate of variance is obtained for the test method. This estimate of variance can be compared to the acceptable limits of variance of the test method.

3. STATISTICAL ANALYSIS OF PATIENT RESULTS:

As an aid in evaluating overall test results, the past experience of expected results can be compared to the results of any given test run. For example, it would not be expected that all results of a given test run be in an elevated range.

Quality control materials are widely used as a means to aid in the evaluation of test results. The following subjects are to be considered in the use of any control material.

 1. Multi-Level
 NORMAL / ELEVATED

 2. Matrix
 HUMAN / ANIMAL / CHEMICAL

 3. Availability
 SUFFICIENT FOR STATISTICS

 4. Form
 LIQUID / FROZEN / DRIED

 5. Variety
 DIFFERENT THAN CALIBRATORS

The UTAK Cannabinoids Level 2 Control is prepared from normal human materials and will generate data that checks and evaluates the results of a test method over the normal and elevated ranges. The principles of statistics require that the same material be available for comparison for any given time period. Frozen control materials both extend the usable time period and allow larger quantities to be available. Statistical accuracy requires that a test method be defined for variance and be calibrated with a suitable standard. The quality control materials that are used must be of a sufficient variety so that the measurements and the data that are obtained are independent of the calibration standards. By using a variety of materials, the entire test method can be continuously evaluated to ensure reliable results.

III. PRODUCT DESCRIPTION:

The matrix for the UTAK Cannabinoids Level 2 Control is prepared from normal human whole blood. Every analyte is added and adjusted to the desired concentration range for each lot prepared (Target Value). Quality control before, during, and after the preparation of the control material ensures that each lot is of the same quality.

IV. PRECAUTIONS:

- Although the whole blood has been tested and found negative for HBsAg by RIA and HIV by EIA, the control
 material should be treated as any other potentially infectious agent.
- 2. For in vitro diagnostic use only.
- 3. For analytical use only.

V. STORAGE AND STABILITY:

- Store fresh frozen control material (both parts A and B) at or below -10°C (14°F). Stable to expiration date printed on the insert and label.
- 2. Store thawed control material at or below 2-8°C (35-46°F). See table for thawed stability.

VI. PROCEDURE:

- 1. Allow fresh frozen whole blood control Part A (1.1mL) to thaw at room temperature with cap on.
- 2. Allow methanol control Part B (1.0 mL) to reach room temperature with cap on.
- 3. Add exactly 0.1 mL of methanol control Part B (1.0mL) to the whole blood control Part A (1.1mL)
- 4. Swirl gently 3-4 minutes to ensure homogenous mixture.
- Assay control material in same manner as patient specimens, following the exact same instructions from the entire test method.
- Record the results obtained on a quality control chart that describes statistical limits for the test method and the particular lot of control material.

VII. LIMITATIONS:

- 1. Control material is for use in quality control programs only; it is not intended for use as a calibration standard.
- 2. Check the lot number on each vial to be sure it corresponds to the lot number printed on the insert.
- Results are dependent upon proper storage and adequate mixing.
- 4. Control material approximates a patient specimen.

VIII. EXPECTED VALUES:

- 1. Listed in the table below are the Target Value and the *Reference Value*; the *Reference Value* is derived from replicate analysis performed by independent laboratory testing.
- The Reference Value is determined by High Performance Liquid Chromatography/Tandem Mass spectrometry (LC/MS/MS).
- Laboratories should establish their own mean values; an individual laboratory's mean of several determinations may not duplicate the values listed below.

Lot Number : A9786	Expiration Date : 09/19			
Analyte	Target Value	Reference Value	Units	Thawed Stability (days)
(-)-Delta-9-THC (I)-9-Carboxy-11-nor-Delta-9-THC (±)-11-Hydroxy-Delta-9-THC Cannabigeral (CBG) Cannabinol (CBN)	50 100 50 50 50	46.0 104.6 50.0 43.3 42.9	ng/mL ng/mL ng/mL ng/mL ng/mL	14 14 14 14

UTAK's express and implied warranties (including merchantability and fitness) are conditioned on the observance of UTAK's insert directions with respect to the use of UTAK's products.

For technical assistance call: UTAK Technical Service (800) 235-3442

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FAX: (661) 294-9272 E-MAIL: INQUIRIES@UTAK.COM PRODUCT NUMBER: 11802 1x1.1ML VIALS, FROZEN 1x1.0ML VIALS, METHANOL EC AUTHORIZED REPRESENTATIVE EMERGO EUROPE MOLENSTRAAT 15 2513 BH, THE HAGUE

THE NETHERLANDS



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