

Marijuana Certified Examiner Course Equipment

Below is a list of equipment that meets the specifications for marijuana school equipment. These products are not endorsed by the GBI-DOFS nor have most of these items been used by the Georgia Bureau of Investigation-Division of Forensic Sciences (GBI-DOFS). This list is only a guideline and any similar product is acceptable. Prices listed are approximate. (Effective: July 2014)

Microscopes: Stereomicroscope, binocular eyepieces, (top) incident light, 10-40x magnification

- 1) Fisher Science Intermediate Stereo microscope (\$259)
- 2) Edmund Scientifics High Power Stereo microscope (\$200)
- 3) Edmund Scientifics 20x/40x (\$300)
- 4) Celestron LCD Digital microscopes (\$200-\$300)
*we do not recommend the Amoeba digital models
- 5) Veho Discovery VMS-004D - 400x USB Microscope with stand (\$99)
- 6) Home Science Tools National Optical 420 Stereo Zoom Microscope 10-40x (\$557)
- 7) Home Science Tools Dual Power Stereo Microscope 20x/40x (\$225)
- 8) External light source (useful for microscopes without a light source) www.amscope.com: 56 LED microscope ring light with dimmer (\$35)

Balances:

Small Capacity: Electronic top-loading balances, readability at least 0.1 gram, capacity up to 5000 g.

- 1) A&D Model EK3000i (\$525)
- 2) Denver Instrument Peak Series (\$200 - \$500)
- 3) Denver XP Series (\$500)
- 4) Mettler Toledo BD Series, Entry Level Series, and Portable Series (\$650 - \$1600)
- 5) Ohaus Adventurer (\$800 - \$1000)
- 6) Ohaus Scout Pro (\$200 - \$450)

Large Capacity: Electronic top-loading, capacity greater than 5000 g (~ 11 lbs)

- 1) Ohaus ES Bench Scales (\$365 - \$510)
- 2) AND FG 30 Bench Scale (\$630)
- 3) Ohaus Champ General Purpose Bench Scale (\$510 - \$1200)
- 4) Denver Instrument XI-Series Industrial Scale (\$850 - \$925)
- 5) Ohaus Champ II Bench Scales (\$645 - \$925)

Balance Certification Guidelines:

Balance certification by a metrology company or other recognized vendor must be obtained prior to class.

The balance certificate obtained must include the following information:

Report Information:

- 1) Model number
- 2) Serial number
- 3) Date
- 4) Agency
- 5) Calibration expiration date
- 6) Company name
- 7) Technician name
- 8) Contact information

Calibration Information:

- 1) Class of weights used during calibration: ASTM Class 3 (or equivalent) or better for small capacity balances. ASTM Class 6 or NIST 105-1 1990 class F or better for large capacity balances.)
- 2) Value of weight used (ex—200.0g)
- 3) Weight traceability information (NIST, National Institute of Standards and Technology)
- 4) Balance readings “before” service/calibration and balance readings “after” service/calibration

*** In order to operate the balance in accordance with DOFS protocol, the balance certification will be renewed annually.**

Balance Certification Vendors: Use certification guidelines in selection process.

- 1) Rite-Weight, Inc., Atlanta 770-476-8500 Toll Free 800-486-0000 www.rite-weight.com
- 2) Wiggins Scale Company, Atlanta 404-346-7090 www.wigginscale.com
- 3) Atlanta Scales, Jonesboro 770-477-7052 atlantascales.com/
- 4) Scale Systems, Atlanta 770-921-1988 (Also serve Augusta, Columbus, Macon and Chattanooga areas) www.bdindustrial.com/company/scale_systems.php
- 5) Wingfield Scale, Chattanooga, TN 423-698-0111 www.wingfieldscale.com/
- 6) Industrial Scales & Systems, Chattanooga, TN 423-499-2210 industrialscalesystems.com/ *Must ask for Class I weight kit
- 7) Albany Scales Inc., Albany 229-436-2351 <http://www.albanyscale.com/>
- 8) South Georgia Scales Inc, Valdosta 229-244-9398, Hahira 229-794-1591
- 9) Department of Agriculture (contact: Jason Hitchcock) 404-656-3719 *Must fill out a Device Detail form
- 10) Check yellow pages for vendor near you.

Calibration-Check Weights: Must be obtained prior to working any cases. They are to be used to check accuracy of balance before and after sampling cases. Requirements for small capacity balances: NIST traceable, ASTM Class 4 or better; 1 gram weight (low end) and the largest weight the balance can weigh (high end = capacity of balance). Requirements for large capacity balances: NIST 105-1 1990 Class F or better; 1.00 lb weight (low end) and the largest weight the balance can weigh or the largest value for which the balance will be used (high end). Search vendors listed below or consult with Calibration Vendor. Provided that calibration checks weights are properly maintained (i.e. handled with gloved hands, tissue, or plastic tweezers; stored in a safe location/container specifically for the storage of the check weights; not dropped or handled with bare hands or metal tweezers), they are not required to be verified annually, but can be verified at the agency's discretion. GBI-DOFS recommends verification of the calibration check weights every three years or more frequently if significant changes occur.

Equipment Vendors: (for PPE, microscopes, balances, weigh boats, weigh paper, etc.)

Rite-Weight, Inc.; www.rite-weight.com: 770-476-8500
Edmund Scientific; www.scientificsonline.com 1-800-728-6999
Fisher Scientific; www.fishersci.com 1-800-766-7000
Cole Parmer; www.coleparmer.com 1-800-323-4340
VWR Scientific Products; www.vwrsp.com 1-800-932-5000
Scales Online; www.scalesonline.com 866-856-6100
Home Science Tools; www.homesciencetools.com 1-800-860-6272

All students must bring:

30 Duquenois-Levine and 30 Fast Blue B (KN Reagent) test kits (3 boxes of each)

Test Kits:

Must be of the **POUCH** type DUQUENOIS LEVINE TEST and the **POUCH** type FAST BLUE B /KN REAGENT TEST

Order/Part numbers are as follows:

ODV, Inc. (NarcoPouch, NarcoTest); www.odvinc.com 1-800-852-0300

- Duquenois Levine NarcoPouch #908 10/box
- Fast Blue B (KN Reagent) NarcoPouch #909 10/box

Dana Safety Supply; 1-800-822-8722 (Carries Sirchie products)

- Duquenois Levine NARK2005 10/box
- Fast Blue B (KN Reagent) NARK20020 10/box

GT Distributors; 1-800-241-8950 (carries all brands)

- ODV
 - Duquenois Levine NarcoPouch #908 10/box
 - Fast Blue B (KN Reagent) NarcoPouch #909 10/box
- NIK
 - Test E (Duquenois Levine) 10/box
- SIRCHIE (do not regularly stock but can order and will be shipped directly from Sirchie)

Lynn Peavey Co; www.lynnpeavey.com/ 1-800-255-6499

- QuickCheck Pouch types
 - Marijuana DL QuickCheck Pouch (10/box) order number 10120
 - Marijuana KN QuickCheck Pouch (10/box) order number 10121
- NIK
 - Test E (Duquenois Levine) 10/box
- ODV
 - Duquenois Levine NarcoPouch #908 10/box order number 06908
 - Fast Blue B (KN Reagent) NarcoPouch #909 10/box order number 06909