

Using Quick-Spot Dispenser for Newborn Screening And Dried Blood Spot Specimen Collection

This method is consistent with the CLSI (NCCLS) Blood Collection on Filter Paper For Newborn Screening Programs; Approved Standard –Fifth Edition (LA4-A5). The user should be familiar with the techniques of this standard.

- 1) Use a heparinized (**GREEN**) Quick-Draw® Adapter (IMT #15-965) assembled with a lithium heparin Microtainer® (without gel separator) (BD # 365965). Collect the sample using this assembly attached to the Innovac® Vacuum System (follow instructions supplied with the Innovac)*. **Fill to the second line (400µl), if possible.** Remove the Quick-Draw / Microtainer® assembly from the Innovac and mix well by inverting several times. After collection, take your time to treat the patient before moving on to the next step.
- 2) **Remove the Quick-Draw Adapter from the Microtainer® and discard into a biohazard container. Attach a new Quick-Spot Adapter (no straw) (IMT #15-975) onto the Microtainer® containing the sample.** This step assures that you will dispense the entire sample from the Microtainer®. Attach this assembly to the disk filter on the Quick-Spot Specimen Dispenser (IMT #15-675). Position the Microtainer® in a horizontal position until you are ready to dispense sample (when in the vertical position, specimen may drip from the tip of the Quick-Spot Adapter).
- 3) When ready, rotate the Microtainer with Q-S Adapter assembly to be vertical as shown below. Slowly and evenly press down the plunger on the Quick-Spot Dispenser and **wipe away the first drop of blood** that is dispensed onto a cotton ball or other absorbent material. **If you were unable to collect 350 - 400µl of blood, skip this step and use the first drop on the first circle.** (The first drop may not be a full 75µl)
- 4) Position the tip of the Quick-Spot Adapter over the first circle of the test paper, being **careful not to touch the test paper with the tip of the Adapter.** Hold the tip close to the circle without touching the paper (approx. 1/4”).
- 5) **Slowly (1 second) and evenly, COMPLETELY depress the Quick-Spot plunger** to drop the sample from the tip of the Quick-Spot Adapter to the sample site of the test paper. **Drop the specimen onto the center of the circle and let it flow out to the edges.** The sample may dispense in more than one drop, but will be dispensed quickly enough so “layering” does not occur. **After dispensing** the drop, release the plunger and turn your wrist to **rotate the Q-S Dispenser approximately 45 degrees** (this prevents any sample from dripping out between spots).
- 6) Move to the next sample site, **rotate back to vertical**, and repeat step 5 until all circles are filled.
- 7) After dispensing the sample, remove the Quick-Spot Adapter / Microtainer® Assembly from the Quick-Spot Specimen Dispenser and dispose in a biohazard container. **(OVER)**
- 8) The Quick-Spot Specimen Dispenser device **is not disposable**; it is designed for 400 patients (2,000 dispenses). If it needs to be disinfected, wipe it down with a disinfectant wipe. Do not immerse.

* Inspect the disk filter before each use. If it has blood in it, replace it with a new one (#15-501).

NOTE: The one-way valves in the gold-colored parts are red in color.

*ALTERNATE COLLECTION METHOD:

- The sample may be collected without utilizing the Quick-Draw Adapter and Innovac Vacuum System. Standard collection methods with heparin BD Microtainer® (BD #365965) may be used. Be sure to fill to the second line (400), if possible. With this method, start with step 2 above.



QUICK-SPOT SPECIMEN DISPENSER

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