**Blood Collection**

**Quest Diagnostics**

**For serum (no gel) tubes only.**

**Separate**

**Mixing Chart**

For other Blood, Serum or Plasma separation instructions, see the Specimen Collection and Handling section of this Directory.

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**Order of Draw**

- **FIRST**
  - **CULTURE BOTTLES**
    - See bottle label
  - **LIGHT BLUE** (BD Vacutainer™): Citrate
  - **RED/BLACK** (DO NOT USE GEL TUBES FOR TOXICOLOGY OR DRUG TESTING): Gel, serum
  - **RED**: No gel, serum
  - **GREEN** or TAN: Heparin
  - **LAVENDER** or TAN: EDTA
  - **ROYAL BLUE**: EDTA
  - **GRAY**: Sodium Fluoride (Glucose)
  - **TUBES WITH OTHER ADDITIVES**
    - **YELLOW** (DRAWN LAST): Citrate ACD

**NOTE:** See inside back cover for Specimen Collection tubes.

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**LAST**

- **TUBE TYPES**
  - **YELLOW**: Citrate ACD
  - **RED/BLACK**: Gel, serum
  - **RED**: No gel, serum
  - **GREEN** or TAN: Heparin
  - **LAVENDER** or TAN: EDTA
  - **ROYAL BLUE**: EDTA
  - **GRAY**: Sodium Fluoride (Glucose)

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**Urine Specimens**

- **GIREF, and Yellow Label**: For culture and sensitivity (C&S) urine testing. Minimum urine volume is 3 mL. For lesser volumes, submit refrigerated urine in a sterile container without preservatives.
  - **Boric acid, sodium formate Shake vigorously**

- **YELLOW PLASTIC, and Yellow Label**: For urinalysis testing. Invert to ensure preservative is properly mixed. Note the 60 mL size. Do not underfill (≤2 mL) or overfill (≥10 mL).
  - **Preservative**

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**Quest Diagnostics Specimen Collection Tubes**

**Stopper/Label Color**

**Laboratory Use**

**Additive/Inversions at Collection**

**To detect microbial growth from blood specimens.**

- **BLUE**: 8-10 gentle inversions unless otherwise noted

**For coagulation determinations. NOTE: Certain tests may require chilled specimen. Follow recommended procedure for collection and transport. Inversions prevent clotting.**

- **RED/BLUE**: 0.105 M sodium citrate (3.2%) 3-4 inversions

**For serum determinations in chemistry, TX incorporating coagulation tube.**

- **RED**: Chloride and gel for serum determinations in chemistry and biochemistry. Citrate separator gel is recommended for coagulation tube. Blood clotting time 30 minutes.
  - **Chloride and gel**: 8 inversions

**For trace-element, toxicology and nutritional-chemistry determinations and immunohematology testing (ABO grouping, Rh typing, antibody screening). Inversions prevent clotting.**

- **RED**: Spray-dried K2 EDTA

**For use in blood bank procedures for collection and transport. Inversions may require chilled specimens. Follow recommended procedures for collection and transport. Inversions prevent clotting.**

- **BLUE**: 0.105 M sodium citrate (3.2%) 3-4 inversions

**For urinalysis testing. Inversions ensure preservative is properly mixed. Note the 60 mL size. Do not underfill (≤2 mL) or overfill (≥10 mL).**

- **Preservative**