**Adult Blood Sample Algorithm**

1. **Does the patient have a low white cell count?**
   - **No**: Draw 6-9 ml whole blood in EDTA tubes.
   - **Yes**: Consider an alternate sample source: 2 to 3 T25 flasks of cultured fibroblasts** or DNA extracted from a skin biopsy, saliva, or buccal sample. If a second source is not possible, please draw an additional 9ml whole blood in EDTA tubes.

2. **Is this the first sample for this patient?**
   - **Yes**: Draw a minimum of 9ml whole blood in EDTA tubes. The ideal sample is 12-15 ml.
   - **No**: Consider an alternate sample source: 2 to 3 T25 flasks of cultured fibroblasts** or DNA extracted from a skin biopsy, saliva, or buccal sample. If a second source is not possible, please draw an additional 9ml whole blood in EDTA tubes.

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**Accepted Blood Tubes**

**Preferred:** Lavender/Purple top (K2EDTA)

Also accepted: Pink, White or Tan top (K2EDTA); Yellow top (ACD-Solution A; Solution B); Light Blue top (Sodium Citrate)

**We cannot accept:**
- Green top (lithium or sodium heparin)
- Red top (clot activator)
- Blue top (Royal: clot activator; Light: CTAD)

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**Notes:**
- **If sending cultured cells, a backup culture should be maintained by the referring institution or lab until testing is complete.**

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Revised: 08/01/2011