Attachment F

Salient Characteristics:

- Physical characteristics of the extractor should not exceed 924 mm H x 1254 mm W x 1043 mm D (36 in. H x 49 in. W x 41 in. D) to accommodate our limited space.
- System Power Requirements should not exceed 200–240 V, 50/60 Hz ±5%; 100–120 V, 50/60 Hz ±5%.
- Bar-coded data entry capabilities.
- A consolidated platform, with universal protocol and reagents for the isolation of DNA and RNA from diverse clinical specimens.
- The module must provide high throughput, with up to 96 samples extracted per run in less than 3 hours.
- Fast, easy setup and walkaway operation.
- Provide computer system (CPU, Monitor, Keyboard, Printer), and UPS for all instruments for the life of the contract.
- Extractor must be able to handle primary-tube sampling for a variety of sample tube types and sizes.
- Able to track sample ID from primary tube to eluate to increase confidence in results.

Functionality and Performance Specifications:

- Capable of detecting at least 1 to 24 patients simultaneously.
- Employs Air Displacement Pipetting (ADP) technology to control contamination.
- Synthesizing with iron oxide-containing magnetic particles along with a photolithographic toner for nucleic acid isolation.
- Automated Hybridization System For HCV Genotyping
- Consolidate nucleic acid extractions on one platform using one of two universal reagent kits for both DNA and RNA—for all specimen types and workloads.
- Employs iron oxide beads technology coated with a nanolayer of silica improve reproducibility, recovery, and quality and result in enhanced assay performance.
- The instrument shall analyze variations in the 5’ untranslated region (5’ UTR) and core region to improve accuracy and provide more precise distinction between subtypes 1a and 1b and up to 17 other subtypes including 6 (c-l).
- The instrument shall use scalable strip processing automation.
- The systems must improve overall productivity in the Molecular Diagnostics Lab, reducing the need for repeat testing thus reducing reagent waste.
- The system should not require monitoring during a run and should be 100% “walk-away” system.