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	<i>Document Manager: Nicholas Fillinger</i>	<i>Approved By: Jeffrey Nye</i>

1.13 Purchasing and Reagents

All purchases shall follow State of Michigan guidelines and instructions in the Laboratory Operations Manual Sections 2.5 and 2.10.

1.13.1 Purchasing

Standards, reagents and chemicals purchased from the following vendors have been found to have acceptable quality control performance:

AACC
 Abbott Laboratories
 Agilent
 Arcos
 Artel
 AirGas
 Biorad
 College of American Pathologists
 Cerrilliant
 Charm Sciences
 Chimera
 Chromacol
 Cliniqa (formerly Clinical Controls)
 Collaborative Testing Services
 Dept. of Transportation
 Eppendorf
 Fisher Scientific
 Gilson
 Guth Laboratories
 J & W Scientific
 J.T. Baker
 ILMO
 Kellermeyer
 LabMart
 Lab Safety
 Lifeloc
 Lipomed
 Machery-Nagel
 Mallincrodt
 Microliter
 National Patent Analytical Systems
 Phenomenex
 Pierce
 Quantum Chemicals

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Radiometer
 Randox
 Ranin
 Restek
 RMI
 Scientific Inst. Inc.
 Shamrock Glass
 Sigma-Aldrich
 ThermoFisher Scientific
 Thomas Scientific
 TriTech
 UCT
 UTAK
 VWR

Chemicals and reagents purchased from other vendors may be used if the acceptable performance of those materials is first established.

Bulk laboratory supplies, such as gloves, cleaning supplies, pipettes, etc., may be purchased from any vendor according to guidelines listed above.

Supplies, reagents or equipment specific to an instrument such as a CO-Oximeter or immunoassay screening device may be purchased from the manufacturer of that instrument.

1.13.2 Quality Control of Chemicals and Reagents

Chemicals and reagents shall be checked for validity of preparation either before being put into use or concurrently with routine casework. The nature of the check will depend on the nature of the reagent and its intended use. Types of checks include, but are not limited to:

- a.) Verification of purity by receipt and filing of a certificate of analysis or equivalent from the manufacturer.
- b.) Verification and adjustment of pH for buffers or mixtures that require a specific pH.
- c.) Controls and calibrators prepared for quantitative measurement shall be evaluated before being put into service. Evaluation shall include use of at least one standard made from NIST-traceable material, as a reference. Results of that evaluation shall be maintained at least one accreditation cycle.
- d.) Visual inspection where appropriate (e.g. for the presence of a DMF layer in DMF-saturated hexane).
- e.) For derivatization reagents, documentation of acceptable derivatization of an unextracted standard.
- f.) For novel chemicals or drug standards, generation of an acceptable reference spectrum.

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g.) Bulk reagents or chemicals (e.g. bottles of ethyl acetate or dibasic sodium phosphate) may be assumed to meet the manufacturer's standards and need not be individually checked for purity. Simple mixtures of reagents (e.g. 50:50 hexane:ethyl acetate or 78:20:2 ethylene chloride/isopropanol/ammonium hydroxide) are likewise exempt from this requirement.

h.) Chemicals or reagents purchased from a manufacturer for strictly defined use in an instrument from that manufacturer (e.g. Radox Evidence or Radiometer CO-oximeters), and which are not usable in any other assay or instrument, may be assumed to meet the manufacturer's specifications for that function.