



List of Laboratory Equipment

	PARTICULARS	QUANTITY	UNIT	UNIT COST	TOTAL COST	END USER
1	<p>1 LOT HPTLC AND ACCESSORIES</p> <p>a. SAMPLER (Complete- Kit) Includes: software, Capillary Dispenser, Universal Capillary Holder, Dispenser Magazine for 1 uL Capillary Pipettes, Capillary Pipettes 1uL pack of 5x100 capillary pipettes, Dispenser Magazine for 5.0 uL Capillary Pipettes, Capillary Pipettes 5.0 uL pack of 5x100</p> <p>b. DEVELOPING CHAMBER: Twin trough chamber for 10x10 cm plates with stainless steel lid; Twin Trough Chamber for 20x20 cm plates with stainless steel lid; smartAlert solvent front monitor (only suitable for glass plates)</p> <p>c. TLC VISUALIZER: The Visual presentation of the complete chromatogram showing all samples and standards side by side is one of the most convincing arguments for High performance Thin-layer Chromatography. No other chromatographic technique can directly express the result as a color image and make it available for visual evaluation. To reproducibly acquire and preserve best quality images of TLC/ HPTLC chromatograms under different illuminations, this high-end imaging and documentation system is available. With its digital CCD camera with a maximum resolution of 82 um on the plate is obtained. For electronic image acquisition, the camera captures polychromatic visible light. Under white light illumination, it is the light reflected from the layer background. Under long wavelength UV light (366 nm), it is the light emitted by fluorescent substances. When short wavelength UV light (254 nm) is used, substance absorbing UV 254 appear as dark zones, provided the layer contains a fluorescence indicator (fluorescence quenching).</p>	Lot	1	4,000,000.00	4,000,000.00	DOST-PCHRD Chemistry Department
	<p>d. TLC SCANNER - for the densitometric evaluation of TLC / HPTLC plates, spectral range 190 to 900 nm, plate size up to 20x20 cm, absorbance and fluorescence mode, software controlled; Light sources: Halogen-tungsten lamp, usable continuum 350-900 nm, Deuterium lamp usable continuum 190-450 nm; high pressure mercury lamp, spectral lines (248,254,265,280,297,302,313,366,405,436,546,577,579 nm), the lamp which is positioned in the light path is automatically ignited. All lamps are current stabilized. PILOT LAMP AND COMPARTMENT ILLUMINATION: The slit is automatically illuminated with visible light when the compartment illumination is switched on. The scanning compartment is illuminated with a 4W tube emitting UV 254 nm which the user can replace by a UV 366 nm or white light tube. MONOCHROMATOR: Concave holographic grating, 1200 lines/mm, bandwidth selectable 5 or 20 nm, wavelength range 190-900 nm; monochromator driven by step, reproducibility of wavelength setting better than 0.2nm, accuracy better than 1 nm; connector for flushing with nitrogen. HPTLC SOFTWARE visionCATS: vision CATS Ultimate combining: Visualizer Ultimate package and Scanner Ultimate Package</p> <p>e. TLC SPRAYER: Consists of a charger and a pump unit with two kinds of spray heads. Spray head type A is for sparysolutions of normal viscosity, e.g. lower alcohol solutions. Spray head type B is for liquids of higher viscosity, e.g. sulfuric acid reagents.</p> <p>f. hands on training, seminar and Troubleshooting on the use of equipment.</p>					



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BENGUET STATE UNIVERSITY
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