

Laboratory equipment

Analytical laboratory (GMO class 1)

Analytical equipment

Hach Lange LCK Test Kit system

Pre-filled reagents in closed cuvettes used for photometric measurement of content of TOC, COD, BOD, NH₄, NO₃ and many more substances in water or media.



Thermo Scientific NanoDrop™ One Microvolume UV-Vis Spectrophotometer

Compact, stand-alone UV-visible spectrophotometer for measurement of microlites highly concentrated samples across a wide variety of analytes without the need for dilution



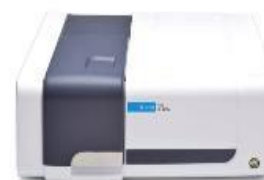
Qubit 4 Fluorometer

Fast and sensitive quantification of DNA, RNA, and Protein the Invitrogen Qubit 4 The new Qubit 4 also easily measures RNA integrity and quality. The easy-to-use touch screen menus make it easy to select and run the assays you need, with results displayed in just a few seconds.



Cary 60 UV-Vis Spectrophotometer

UV-Vis spectrophotometer with a wavelength range of 190–1100 nm. Can be fitted with long path length cuvettes and solid sample transmission or reflectance accessories and is ideal for remote UV-Vis absorbance analysis, when fitted with our fiber optic probes.



Biochrom ultraspec 2100 pro UV-Vis spectrophotometer

The spectrophotometer has an integral high resolution graphics display and easy-to-use software making it ideal for use in the modern laboratory. Wavelength range 190–900 nm. Monochromator 1200 lines/mm. Aberration corrected concave grating



2 x Agilent 1290 Infinity II BIO UHPLC

UHPLC up to 1300 bar, binary high pressure mixing and high-speed pump, vial sampler, multicolumn thermostat. The first HPLC has both Diode Array Detector and Refractive Index Detector, the second one has an MS Detector. Columns e.g. InfinityLab Poroshell 120ELC18. SEC130A 2,7µm 300mm. AdvanceBioAAA. AdvanceBio Peptide Map.



Agilent 8860 Gas Chromatograph (GC)

Gas chromatograph with FID and TCD detectors and autoinjector and split/splitless (S/SL) inlet. Thermal conductivity detector (TCD) responds to virtually any compound, excluding the carrier gas. It is generally used for the GC analysis of permanent gases, light hydrocarbons, and compounds that do not respond well to a Flame Ionization Detector (FID).

We have different columns: HP-INNOWax 30m, 0.25mm, 0.50um, PoraPLOT Q-HT 25m x0.32mm x10um, CP-Molsieve 5A 30m x 0.53mm x 15um



TECAN Spark plate reader

Absorbance and fluorescence plate reader with monochromator. Scanning and bottom read. Incubator from RT+3 °C to 42 °C. Gas control (O₂ and CO₂) module



ParticleTech particle analyser “O’celloscope”

Analyzes liquid and solid substances. Count, sort and analyze particles based on algorithms. Can be used to analyze size-distribution, timelapse e.g. crystallization and much more



BIORAD electrophoresis

Vertical native and SDS poly-acrylamide-gel-electrophoresis (PAGE). We use pre-cast gels that are easy to use



ReactALL from Technobis

Advanced and all new instrument released February 2024 for chemical/enzymatic reaction screening and optimization, reaction profiling and kinetics. ReactALL comprises five small-scale reactors, each equipped with fully automated sampling technology. Representative samples are immediately quenched, diluted, and transferred to standard HPLC vials.



CrystalINE PV/RR from Technobis

Equipment for rapid testing and analyzing protein (e.g. insulin) crystallization with several process parameter settings at the same time thereby improving and accelerating crystallization research considerably



Biolector XT Microbioreactor (Beckmann Coulter)

Microbio fermentation reactor 48 wells with Microfluidic Bioprocess Control. 48 wells for individual cultivations. 10 – 50 °C (min. temp.: 8 °C below ambient temp.), controlled gas atmosphere (CO₂, O₂), shaking speed 100 – 1500 rpm (3 mm diameter), active humidification, ambient air, 1 – 100 % O₂, 0 – 12 % CO₂, Anaerobic cultivation, 0 – 100 % dissolved oxygen, pH 4 –7.5, Two sided pH control (alkali and acid), Online biomass measurement requires no dilution, small working volume (800 – 2400 µL)



VWR Dry matter analyzer

Determine humidity and water content with this heating scale for dry matter determination.



Different kind of meters

PreSens Optical O₂, pH & CO₂ Meter MCR-O1P1C1 (Multisensor)

Parallel O₂, pH & CO₂ monitoring with one device. Individual temperature compensation for each channel. Pressure & salinity compensation. For use with non-invasive sensors, dipping probes & flow-through cells. Can be used in multiple applications, like benchtop bioreactor monitoring, respirometry or microfluidics.



Brookfield DV-1 viscometer

Measures viscosity of fluids



IKA ROTAVISC lo-vi

The ROTAVISC series determines the liquid viscosity in all areas of application ranging from the laboratory to quality control. Easy to operate. The display allows for an intuitive menu guidance. Highest measurement accuracy. The level of measurement accuracy for both Newtonian and non-Newtonian fluids is +/- 1 % of the measuring range. The reproducibility is +/- 0.2 %.



WTW Analytics pH- and conductivity meter 3320

Measures pH and conductivity Two pcs.



Electronic Thermometer Testo110

Measures temperatures



LLG uniREFRACTO 5 Pro

Handheld refractometer. Compact digital 3-scale handheld refractometer for measuring, e.g., Brix and refractive index of liquids. Two scales are pre-set to 0 - 95 % Brix and 1.33 - 1.54 RI, the third scale can be freely selected.



Greisinger Oxygen meter

The G 1690 is an economical and precise immersion gas meter but is also a favorable but at the same time high-quality entry point for many other oxygen measurements – for example with protective gas measurements.



Mettler Toledo Densito densitometer

Measures density of liquid samples



HACH 2100Qis Portable Turbidimeter

ISO turbidimeter 0-1000 FNU. With calibration standards.



Shakers and Centrifuges

IKA MS3 Vortex shaker

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtitre plates.



VWR tabletop mini centrifuge

Centrifuges test tube minicentrifuge



Bertin Technologies Precellys 24 tissue homogenizer

Homogenizer with different kits for different tissues and cells



Various magnetic stirrers, and Vortex mixer and mini table centrifuges



iEMS® Incubator/Shaker HT, Labsystems

High performance microplate incubator and orbital shakers have an orbit of 0.1mm and five speeds from 400–1400rpm, adjustable in 250rpm increments. The iEMS® incubator/shaker is designed to handle 96-well plates. The iEMS® incubator/shaker HT is a high temperature model with the capacity of incubating three 96-well plates microplates simultaneously.



Biosan BIO RS-24 mini rotator

Rotates small test tubes and other small samples



LLG tumbling UniSHAKER 2

Multi-functional shaker with dimpled mat, perfect for foam-free mixing of blood and other biological samples in centrifuge tubes. Suitable for a variety of tubes and dishes



IKA KS 4000 ic control Incubator Shake

Innovative incubator shaker design allowing unattended operation in a temperature-controlled environment.



IKA Shakers ROCKER 3D digital

Digital shaker with three-dimensional tumbling motion and adjustable speed for smooth mixing tasks. Used for homogeneous mixing in flasks, culture flasks, Petri dishes and tubes. Ideal for e.g. the cultivation of cell cultures, DNA extractions, distributing of cells and staining and destaining of cells. Even with load and voltage fluctuations, shaking speed remains constant. An adjustable angle ensures optimum adaption to the experimental conditions.



General laboratory equipment

Precision scales Sartorius Entris-i II and Entris II

620g/1mg - 5.200g / 0,1g



Platform scale DS 30K0.1L

30 kg / 0,1g



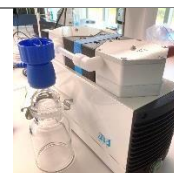
Millipore Direct-Q 3UV Ultrapure Water

Produces water of type 1 for e.g. UPLC



KNF LAB Laboport Vacuum pump

Including glassware for vacuum funnels/filters



Glass desiccator



2mag Magnetic stirrer MIX 1



SCIOLOGEX SCI550pro heating plate



Labsolute Motorized Pipet Filler/Dispenser

Dispenser for glass pipettes, e.g. 10, 20, 50 mL



Eppendorf pipettes

We have a broad range of pipettes: 2, 10, 20, 100, 200 μ L, 1 mL, 5 mL and 10 mL.



Miele laboratory dishwasher

Lab dishwasher that washes with purified water



Fume Cupboard / Exhaust Hood

Exhaust hood for work with chemicals, dust etc.



Grant water bath with temp. control



Mammert water bath with temp. control



2 x VWR Digital heat blocks

Thermostat heating blocks for test tubes etc.



BWT purified water

Bestaqua60 HQ compact reverse osmosis with polishing filter. Delivers purified water for autoclave, fermenter, washing machine and for any other purpose in both laboratories.



VWR USC 2100T ultrasonic cleaner

Cleaning via ultrasound has been one of the most effective methods of freeing parts with complex geometry, such as fins, under cuts, bore holes or pocket holes from residues (contaminants).



Other

Metrohm Dropsens Multi (8) potentiostat

For advanced electrochemical analysis and research



5 pieces of dual chamber microbial fuel cells

To be used with Metrohm Dropsens Multi Potentiostat



x 5

PIRO® pipetting robot

PIRO® pipetting robot from DORNIER LabTech Systems. Very precise pipetting, even at very small volumes. Error-free automated processes. Drag and drop user interface makes it easy to program



ZEISS Axio Vert. A1 microscope with camera

Microscope with brightfield, phase contrast, plusDIC, improved Hoffman Modulation Contrast (iHMC) and Fluorescence contrast.



VWR INCU-Line Tower incubator

Incubates samples from room temp to +50 °C



Metrohm 848 Titrino Plus Titrator

Compact titrator for dynamic (DET) titrations with automatic equivalence point finding
monotonic (MET) titrations with automatic equivalence point finding
endpoint titrations (SET)



Hach Lange LT200 dry thermostat heater with 1 block

Pre-programmed for all standard digestions and freely programmable for user specific digestions. 3 pre-programmed and 6 freely programmable storage spaces. Temperature settings between 37°C and 150°C in 1°C steps, time setting between 1 and 480 min



Mixer



If we don't have the equipment needed for your project, contact Kresten at kkro@pha.dk to discuss options.

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