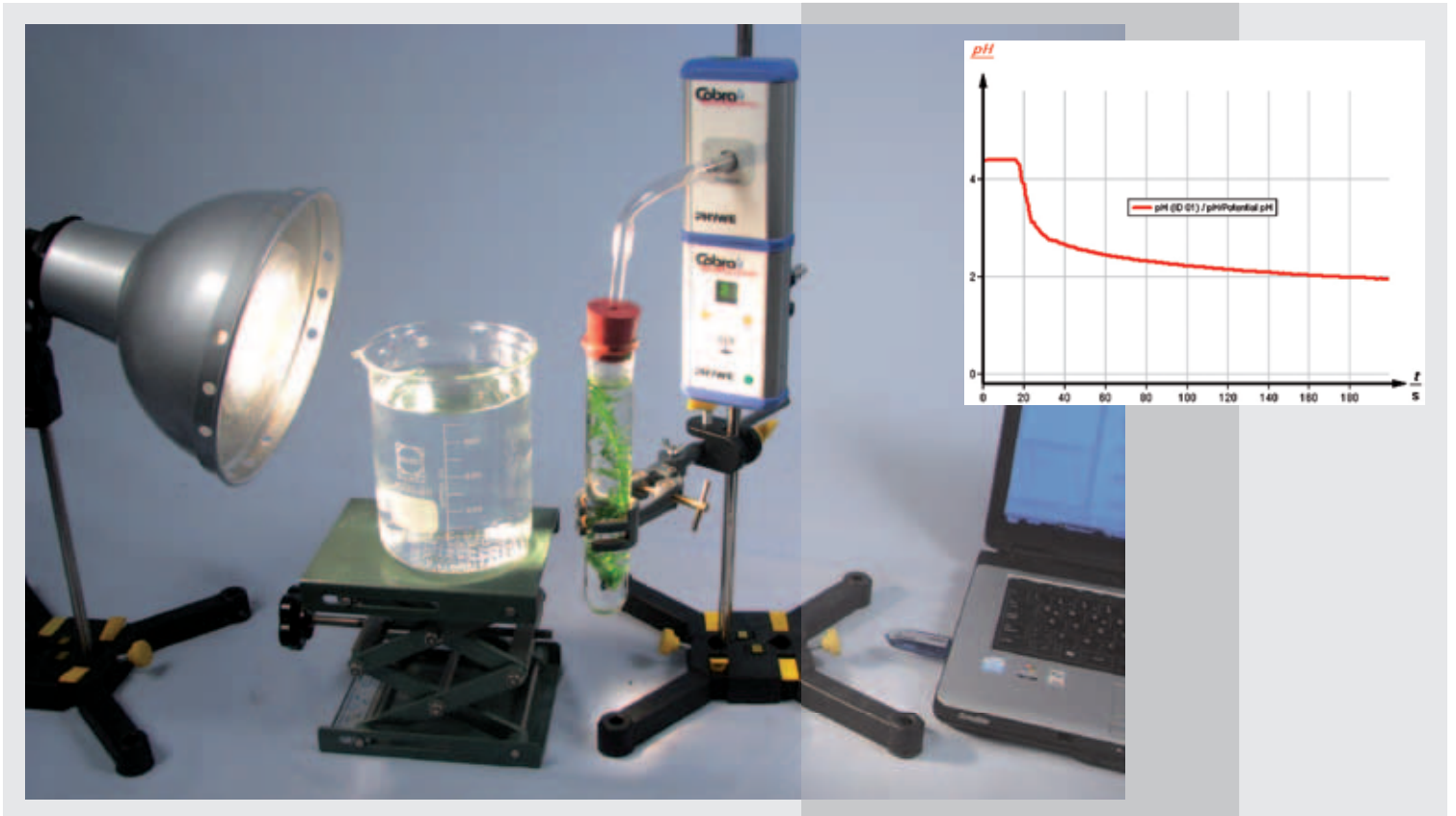


# Biochemistry & plant physiology

## with demonstration experiments



### Comprehensive set to perform experiments covering attractive topics biochemistry and plant physiology

The experiments comply with the standard curricula in high schools as well as introductory laboratory courses at universities. The sets include all measurement instruments, labware and reagents necessary to perform the experiments described in the manual "Demonstration experiments Cobra4 Biochemistry & plant physiology".

The Cobra4 computer interface is robust and very easy to use, allowing measurement data to be recorded and displayed on the PC with a minimum of interaction. By transferring data wirelessly, the interface gives you the flexibility and facility required in a modern teaching context.

### Features

- Important curricular topics
- Attractive experimental literature - ten experiments in one set
- Flexible experimenting thanks to wireless data transmission
- Compact setup
- Reliable and reproducible results
- All components in one package
- For both demonstration and student experiments

### Set for performance of 10 experiments covering the themes biochemistry & plant physiology

The data acquisition is based on Cobra4 wireless. By simply exchanging the sensor units, standard labware and reagents, the following experiments can be performed:

- Photosynthesis (2 methods)
- Transpiration of leaves
- Glycolysis (2 methods)
- Ionic permeability of the cell membrane
- Determination of the Michaelis constant
- Enzyme inhibition
- Substrate inhibition of enzymes
- Enzyme activity of catalase



## Products

### Set Cobra4 Biochemistry & plant physiology

The instruments set consists of:

- Cobra4 wireless computer interface for data acquisition,
- sensors for temperature, pH, conductivity, light intensity, pressure,
- lamp socket with reflector, diameter 20 cm, and 120 W filament lamp,
- special glassware,
- special stand material for the experiment setups,
- experiment manual, (56 pages, in color).

### Set Cobra4 Biochemistry & plant physiology

65982.88

### Manual Demonstration experiments Cobra4: Biochemistry & plant physiology

01331.02

Additionally required:

### Software measure Cobra4, single user and school licence

14550.61

### Labware set for Biochemistry & plant physiology

65980.77

consists of: balance 210g/0,01g with RS232 interface, lab-lifting apparatus, 160 x 130 mm, magnetic stirrer, diverse lab glassware and small items, diverse lab consumables, microliter syringe (100 µl), mortar and pestle, bunsen burner with safety gas tubing

### Chemicals set Biochemistry and & physiology

65980.10

consists of: Sodium hydrogen carbonate, tartrazin (E102), patent blue V (E131), buffer solution pH 4.01, buffer solution pH 10.01, hydrochloric acid, 1.0 mol/l, sodium hydroxide solution, 1.0 M, urea, pure, urease solution in 50% glycerol, silver nitrate, pure, distilled water, glycerol, 99%, hydrogen peroxide, 30%.



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