

## **Perfect Micromanipulation: Axio Scope.A1 Tetrad System for Yeast Genetics**

Special research applications also demand special technology. Based on the modular Axio Scope routine microscope, Carl Zeiss has developed a system specifically for yeast genetics that perfectly meets all the demands of this special application. Right down to the last detail.

### **Maximum precision for genetic selection**

The micromanipulation of yeasts places precise demands on the technology employed; here the aim is to obtain genetically modified yeasts with specific markers, by separating 4 haploid ascospores and combining these with other ascospores. With the Axio Scope.A1 Tetrad system, consisting of the Axio Scope.A1 microscope stand and a robust, manual Tetrad manipulator, Carl Zeiss presents a system that has been designed right down to the last detail with precisely these requirements in mind. Travel ranges on the millimeter scale, secure click-stop positions and extremely fine joystick control guarantee reliable experiments. The modified stage features y click stops

and is also available with x and y click stops if desired. A clearly marked scale on the holder for inverted Petri dishes completes the system. Tetrad needles, allowing you to start your application immediately, are also available as an option. And all this at an unbeatable price-performance ratio.

### **Modular and flexible: the Axio Scope.A1 routine microscope**

A system that grows with your requirements: the modular architecture of Axio Scope.A1 allows individual configuration tailored to the needs of your application. This guarantees you a unique range of applications in



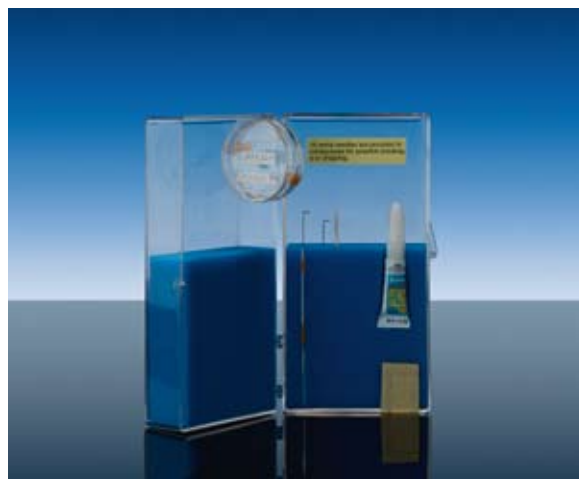
**The New Standard for Genetic Manipulation  
in Yeast Research**



We make it visible.



*Tetrad manipulator on the modified stage: the perfect set-up for yeast genetics*



*Optional: with the Cora needle kit you can start your experiment without delay*

addition to yeast genetics and also means that you will benefit from maximum cost-effectiveness and functionality.

#### **The tailored system solution for yeast research**

- Stage with y or x, y click stops at 5 mm intervals for simple positioning of spores in a genetic cross
- Clearly visible scale on the Petri dish holder for precise manual positioning of spores
- Spring-loaded Petri dish holder ensures that 100 mm dishes from various manufacturers are held perfectly in place
- Complete solution including Tetrad needles means that you can start your experiment without delay
- Modular system architecture with a myriad of configuration and expansion options
- Suitable magnification (using an Optovar) combined with large working distance ensures excellent identification of spores with ample space to position and operate the micropipette

#### **Technology in detail: superior performance in every respect**

- Fine adjustment of joystick travel between 0.1 mm and 5.0 mm
- Petri dish holder for 100 mm x 15 mm dishes – positions dish 8 mm above stage
- Tetrad manipulator can be attached to modified stage (75 x 50) without interfering with use of the system for other experiments
- Modular construction of Axio Scope.A1 allows an individual set-up tailored to your specific application
- Innovative LED illumination concept with no lamp exchange or heat accumulation
- 12 V / 50 W halogen lamp available as an alternative for outstanding illumination through the agar
- The manipulator can be attached and operated on either the left or right side

Catalog number	Description
432035-9080-000	70 x 50 stage for Tetrad with y click stops
432035-9090-000	70 x 50 stage for Tetrad with x and y click stops
432035-9100-000	Cora needle kit for Tetrad

It is also possible to order complete Axio Scope.A1 Tetrad systems using the combination numbers 490035-0007-000 (LED variant) and 490035-0008-000 (halogen 50 W variant).

For further information, please refer to our price list or online shop or contact your Carl Zeiss representative.

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