

BIO-RAD

ADVANCING SCIENCE THROUGH EDUCATION

At **Lasec®**, we are committed to **supporting educators, researchers, and students** in their pursuit of scientific discovery. Through our partnership with **Bio-Rad**, we bring **world-class educational tools and resources** to **classrooms and laboratories** across the region.

BIO-RAD EDUCATION KITS



Hands-on learning tools that bring molecular biology, genetics, and biotechnology to life. These kits empower students with real-world scientific skills, from CRISPR gene editing to DNA analysis and forensic science.

BIO-RAD ACADEMY



A comprehensive online learning platform featuring expert-led courses designed to enhance scientific knowledge and technical proficiency in key research areas. Whether you are an educator looking to enhance your curriculum or a researcher seeking advanced training, Bio-Rad and Lasec® provide the resources you need to excel. Explore our range of innovative learning solutions and take science education to the next level.

Contact your **Lasec® Sales Representative** today.
Ts & Cs apply

+27 21 531 7504 sales@lasec.com www.lasec.com

 **Lasec®**

E&OE

1. BIO-RAD EDUCATION KITS

ENGAGING HANDS-ON LEARNING FOR THE SCIENTISTS OF TOMORROW

Bio-Rad's Education Kits provide an immersive, practical approach to molecular biology, genetics, and biotechnology, allowing students to engage with real-world scientific techniques in the classroom. Designed for high school and university-level education, these kits cover a broad range of topics from CRISPR gene editing to DNA extraction and forensic analysis.

WHY CHOOSE BIO-RAD EDUCATION KITS?

- ✓ **Real-World Applications** – Hands-on labs connect theory with practical skills
- ✓ **Industry-Grade Reagents** – Reliable and high-quality materials for consistent results
- ✓ **Engaging & Interactive** – Encourages scientific curiosity and critical thinking

Lasec® is proud to partner with Bio-Rad to bring these world-class educational tools to your classroom. Contact us today to learn more about how these kits can enhance your curriculum!

Explore Bio-Rad's Full Education Offering

CRISPR Gene Editing Kits

Experience Gene Editing Firsthand!

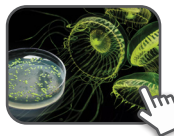
The CRISPR Gene Editing Kits enable students to perform precise genetic modifications using CRISPR-Cas9 technology.



Out of the Blue CRISPR & Genotyping Extension Kits: Students insert a stop codon into the lacZ gene in *E. coli*, gaining practical experience in gene editing while exploring its ethical and scientific implications.

pGLO Bacterial Transformation & GFP Kits

Glow with Genetic Engineering! These engaging kits teach students how to manipulate bacterial DNA to express Green Fluorescent Protein (GFP), reinforcing concepts of genetic transformation, gene expression, and protein purification.



pGLO Bacterial Transformation Kits: Available in three formats to suit different learning levels, these kits help students understand how genes are turned on and off.



pGLO GFP Extension Kits: Take learning further by purifying and analysing GFP using SDS-PAGE and chromatography techniques.



Secrets of the Rainforest Kit: Simulate drug discovery using GFP purification techniques.

Contact your Lasec® Sales Representative today.
Ts & Cs apply

+27 21 531 7504 sales@lasec.com www.lasec.com

 **Lasec**®

E&OE

DNA Extraction and Electrophoresis Kits

Unlock the Secrets of DNA! These kits provide hands-on experience with DNA analysis, helping students grasp fundamental molecular biology techniques.



Virus Detection and Transmission Kit: Simulate virus tracking using gel electrophoresis.



Genes in a Bottle Kit: Extract and store personal DNA in a keepsake necklace.



Restriction Digestion and Analysis of Lambda DNA Kit: Teach DNA restriction digestion and electrophoresis.



Forensic DNA Fingerprinting Kit: Engage students in crime scene investigation using real DNA analysis.



STEM Electrophoresis Kit: Build and use a gel electrophoresis chamber, integrating science and engineering principles.

PCR & Real-Time PCR Kits

Amplify DNA, Amplify Learning! These kits teach the fundamentals of PCR and qPCR, key technologies in biotechnology and diagnostics.



DNA Barcoding Kits: Identify species using genetic barcoding techniques.



Crime Scene Investigator PCR Basics Kit: Introduce students to DNA profiling.



PV92 PCR Informatics Kit: Analyse personal genetic variations using PCR.



GMO Investigator Kit: Detect genetically modified DNA in food samples.



Real-Time PCR Kits: Extensions of the above kits that introduce qPCR principles.

2. BIO-RAD ACADEMY

EXPAND YOUR SKILLS WITH BIO-RAD ACADEMY

Learn from industry-leading Bio-Rad scientists with free online courses designed to enhance your research. Bio-Rad Academy offers expert-led training in Western Blotting, Gene Expression, and Digital PCR, with new courses in Flow Cytometry, Chromatography, and Bio-Plex Immunoassays on the way. Plus, gain access to exclusive online communities for deeper discussions and expert insights. Start learning today!

Available Courses:

- ✓ Bio-Plex Immunoassays
- ✓ Chromatography
- ✓ Digital PCR
- ✓ Flow Cytometry
- ✓ Gene Expression
- ✓ Western Blotting



Explore Bio-Rad Academy

Contact your **Lasec® Sales Representative** today.
Ts & Cs apply

+27 21 531 7504 sales@lasec.com www.lasec.com

Lasec®

E&OE