## 1. Comparative Proteomics Kit I: Protein Profiler

The comparative proteomics I kit protein profiler module guides students through a laboratory-based scientific investigation. Students make predictions about their results in pre-lab activities using internet databases and published phylogenetic information. They then employ protein electrophoresis to study protein structure and function, generating protein profiles from the muscles of both distantly and closely related species of fish. From their results, they compare the different species' profiles, construct cladograms (phylogenetic trees), and assign each organism a branch. Students can decide whether their results support their predictions.

With this kit, students:

- Explore evolution
- Study protein structure and function
- Use polyacrylamide gel electrophoresis (PAGE) to separate proteins by size
- Construct cladograms using data from their gel analysis
- Complete all activities in three 45 minute sessions
- Refill kit includes: standards, actin and myosin standard, and DTT - for educational use only

| Code | Description | Pack | Price |
|---|---|---|---|
| **ELE1432** | Comparative proteomics kit I: protein profiler | Each | **£172.22** |
| **ELE1434** | Protein profiler refill kit temperature sensitive reagents bag | Each | **£75.81** |

## 2. ELISA Immuno Explorer Kit

Bio-Rad's ELISA immuno explorer kit provides a hands-on way to learn about antibodies - how they are produced by the immune system and how their unique properties have revolutionised medicine, epidemiology, and life science research. Teachers have the flexibility to select one of three different ELISA-based protocols that use real antibodies to demonstrate how antigen or antibody detection can be used in biodefense, immunology, and health science applications.

- Flexible curriculum - with options for three different lab activities, you can choose the type of test most relevant to your course: ELISA for tracking disease outbreaks (such as a zombie apocalypse), ELISA for antigen detection (for example, pregnancy, drug, environmental or disease detection), or ELISA for antibody detection (past exposure to disease)
- Uses real antibodies - no simulated, coloured solutions
- Activities include three investigation lab options and a post-lab assessment
- Lab activity can be completed in a single, 45 minute classroom period
- Consumables refill reagents pack contains: antigen, antibodies, 10% tween, 10x PBS, HRP enzyme substrate - for educational use only

| Code | Description | Pack | Price |
|---|---|---|---|
| **ELE1436** | ELISA immuno explorer kit | Each | **£141.99** |
| **ELE1438** | ELISA immuno explorer kit reagent refill pack | Each | **£105.60** |

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