

# HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

## PUBLIC

- Project managers, engineers, senior technicians, technicians in the food, pharmaceutical, cosmetic and packaging industries.
- The level of training can be adapted according to how the public is made up.

**DURATION**  
3 days

**TIMES**  
9:00 - 17:30

**COST PER TRAINEE**  
2500 €

## AIMS

- To provide elements of theoretical understanding and practical experience necessary for using the device in current standard practice.
- Daily repetition of handling processes, to make independent work with the device easy and effective.

## TEACHING RESOURCES

- The training combines theoretical explanations and practical
- Expositions are based on the experiences of those involved
- A document listing all the training supports is provided



## PROGRAMME

### **Principles of Good Laboratory Practice prior to working in an analytical laboratory**

#### **Theory of HPLC for current standard practice**

- The different modules making up HPLC: pump, sample processor, oven, detector.
- The different columns and the various solvents used.

#### **Presentation of usual study subjects in the laboratory**

- Measurement of preservative levels in cosmetic products.
- Measurement of UV filters in sun products.
- Measurement of active ingredients after flow study:
- Acceptance of samples after measurements.
- Handling of quality system, importance of traceability.

#### **Preparation of samples**

- Solubilising, choice of solvents.
- Theoretical and practical aspects.
- Production of solutions from external ranges.
- Importance of practice and reliability of laboratory processes.

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**Choice of calibration method (external direct, measured addition, internal calibration)**

- Advantages and disadvantages of each method.
- Criteria of choice.
- Practical realisation.

**Observations from use of HPLC. Concepts of theoretical LC/MS-MS and practical observation. Concepts of theoretical GC/MS and practical observation.**

**Use of a HPLC chain for routine measurements.**

**Daily repetition for effective handling.**