

# TOOLS FOR CALIBRATION & VALIDATION IN THERMAL DESORPTION



## CALIBRATION

### Calibration Solution Loading Rig

#### What is it?

A rig for reliable and convenient loading of liquid or gas standard onto sorbent tubes to generate calibration curves.

#### Allows you to

Calibrate the entire analytical system (TD-GC-MS) for qualitative and quantitative analysis.

#### When used

As part of routine quantitative analysis or when changing methods and/or analytical conditions.



## QUALITY ASSURANCE

### Internal standards

#### What is it?

A fixed quantity of gas standard loaded onto the sample tube or trap during the analytical process.

#### Allows you to

Use internal quality control to identify anomalous results in an analytical sequence.

#### When used

As part of any analytical workflow for verification of instrument performance.



### Certified Reference Standard Tubes

#### What is it?

Sorbent tubes pre-loaded with accurate, certified quantities of analytes.

#### Allows you to

Confirm correct calibration of instrument.

#### When used

Usually at a defined frequency in line with good laboratory practice.



## VALIDATION

### Check standard tubes

#### What is it?

Sorbent tubes containing a selection of analytes at nominal concentrations.

#### Allows you to

Carry out quality assurance of methods/conditions and validate instrument performance.

#### When used

As a preliminary performance check following method changes or system maintenance.