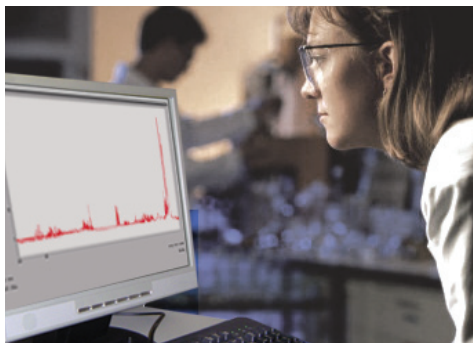


CHEMICAL CHARACTERIZATION OF MATERIALS, WATER CONTENT IN MATERIALS AND RESIDUAL STERILANTS
A powerful and versatile analytical technique used to identify and quantify molecules that are volatilized (off-gassed) out of samples. Molecules that are sufficiently volatile to enter the vapor state are identified and quantified - even in trace quantities



Static Headspace Cell

FTIR is a powerful and well-established technology that is able to capture a well-defined fingerprint of materials for both identification and quantification of analytes. This technology has the unique ability of subtracting out known interferences resulting in a more accurate quantification of the analytes of interest.

Applications

Chemical Characterization of Materials: Conventional methods analyze for individual known toxic compounds. In many cases, these methods require multiple extraction steps and a variety of analytical equipment. The FTIR is an excellent screening and tool that can identify a wide range of molecules within a single analytical run.

Water Content in Polymers: Pace Analytical Life Sciences has developed and validated methodology that can accurately quantify the water content within materials and finished pieces.

Residual Sterilants: Pace Analytical Life Sciences has developed methods to measure the release of Ethylene Oxide (EO), Ethylene Glycol (EG), and Ethylene Chlorohydrin (ECH) in a single analytical run. This analytical technique allows for the measurement of total residuals in a fraction of the time of conventional methods. The rate of release of residual sterilants and degradation products can be determined.

Pace Analytical Life Sciences operates two state-of-the-art laboratories totaling over 60,000 square feet of laboratory space: one in Oakdale, MN; the other in San German, Puerto Rico. Our labs are cGMP-compliant, FDA established, DEA registered and ISO/IEC 17025:2005 accredited.



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IDENTIFY AND QUANTIFY RESIDUAL MOLECULES IN MATERIALS
AND FINISHED PRODUCTS

APPLICATIONS

STATIC HEADSPACE FTIR

Chemical Characterization
of Materials:
ISO 10993-18

Identification
&
Quantification

Water Content in Polymers

**Quantify the water content
within materials and finished
products**

Residual Sterilants:

ISO 10993-7

Total Residual
&
Rates of Release

EO / ECH / EG

**Nearly any molecule that can
be forced in to the vapor state
- identified and quantified -
even in trace quantities!**

