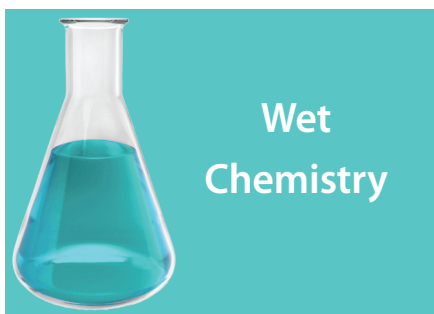


# chemistry programs

From incoming material screening to lot release testing, WuXi AppTec offers a wide range of chemical testing programs for assessing the safety of medical device materials and manufacturing processing aids.



- Gluteraldehyde Residues
- Conductivity
- Karl Fischer Moisture
- Osmolality
- USP 381 Physicochemical
- Protein Assay
- TOC
- Hemoglobin
- Carbohydrate

- EO Residual Panels
- EO Exhaustive Analysis
- EO Residuals
- ECH, EG Residuals
- Qualitative Screening
- Targeted Quantitation
- Comprehensive Quantitation
- Materials Characterization
- Extractable Analysis
- Leachable Analysis
- Failure Analysis
- Vendor Comparisons

- SEM-EDS
- TGA
- DSC
- Viscosity
- Specific Gravity
- Melting Point
- Boiling Point
- Flash Point
- Residue on Ignition
- Moisture

Talk to us and find out how our chemistry programs can work for you.

Contact a WuXi AppTec Account Manager at 651-675-2000 or email: [info@wuxiapptec.com](mailto:info@wuxiapptec.com)



Expert Solutions for Product Development

# featured equipment/instruments

## ICPMS

Perkin Elmer NexION 300D: Analysis of over 60 metals down to ppb (part per billion)/ppt (part per trillion) levels. Microwave Digestion capabilities (CEM Explorer/Discoverer) for digestion of solids.

## AA

Perkin Elmer AAnalyst 200: Evaluation of the concentration of a particular element in a test sample.

## UPLC-QTOF-MS

Agilent 1290 UPLC with Agilent 6530 QTOF MS: Analysis of semi-volatile and non-volatile compounds to pq (picogram) quantitation levels or lower. Mass accurate identification of unknowns.

## HPLC-DAD and RI

Agilent 1200 HPLC with DAD and RI detectors. Targeted semi-volatile and non-volatile analysis.

## HPLC-MS

Dionex Surveyor MSQ HPLC-MS system. Targeted semi-volatile and non-volatile analysis.

## HS-GC-FID/MS and DI-GC-FID/MS

Agilent 6890 with Headspace Autosampler, Direct Inject Autosampler and 5973 (EI) Mass Spec (MS) and Flame Ionization (FID) detectors. Analysis of volatile and semi-volatiles (targeted quantitation and unknown identification).

## Direct Inject GCMS

Agilent 7890 with Direct Inject Autosampler and 5975 (EI/CI) Mass Spec Detector. Analysis of volatile and semi-volatiles (targeted quantitation and unknown identification).

## IC

Dionex ICS 2100 Ion Chromatography System. Analysis of anions, cations, small inorganic and organic acids.

## DSC

TA Instruments Q20. Glass transition, melting, and crystallization temperatures. Thermograms can give information about degree of polymerization / additives, purity, polymorphs, material identification

## TGA

TA Instruments Q5000. Loss of water/solvent (nonspecific), absorbed moisture, decomposition temperature.

## Microscopic FTIR

Nicolet iS10 with Continuum Microscope. Qualitative material identification of materials and particulates as small as 10 micron. Identification and quantitation of impurities and contaminants.

## SEM-EDS

Tescan Vega 3 Variable Pressure SEM with Oxford Aztec EDS System. Imaging, and qualitative and quantitative elemental analysis.

## Particle Count

Hach HIAC. USP<788>, subvisible particle analysis 2- 150 micron.

## Spectrophotometer

Agilent 8453. UV/VIS scans, colorimetric analysis.



To learn more about our chemistry services, contact a WuXi AppTec Account Manager at 651-675-2000 or email: [info@wuxiapptec.com](mailto:info@wuxiapptec.com)