

FOOD & BEVERAGE SERVICES

The McCrone Group offers you an unlimited scope in the analysis of food and beverage contaminants and packaging problems. Our team of scientists has unmatched experience in solving a wide variety of particle identification and materials problems. Our faculty of experts can teach you the techniques, and our knowledgeable sales team can help you configure the instruments to meet the analytical needs in your laboratory. From analysis to education to instruments, The McCrone Group is your premier microscopy resource for the food industry.



ANALYSIS • **McCRONE**
 ASSOCIATES, INC.

McCrone Associates is focused on solving particle identification and materials problems using microscopy and micro-analytical techniques. The root cause of many contamination issues and packaging failures often involves particles or defects barely or not visible to the naked eye. Our staff scientists use state-of-the-art instruments and techniques to provide reliable, confidential analysis of your contaminated food and beverage products and/or packaging defects. All our services begin with an evaluation of your problem and samples, and continue with analysis and consulting. If needed, we also offer on-site investigation and coordination of additional services.

McCrone Associates is ISO/IEC 17025:2005 A2LA accredited (certificate #3631.01), and registered with the FDA, GDUFA, and DEA.

Analytical Services:

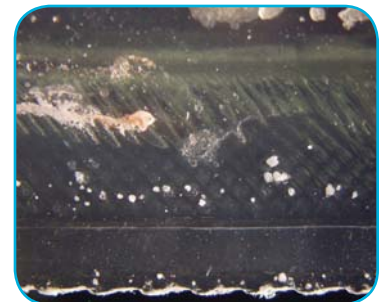
- Contaminants/Foreign Object Identification
- Raw Materials
- Additives Analysis
- Flavoring/Odor Analysis
- Compositional Analysis
- Product Comparisons
- Printing Problems
- Package Seal Problems
- Product Tampering

Common Packaging Samples:

- Beverage Containers
- Aluminum and Stainless Steel Cans
- Plastic Bags and Multi-layered Films
- Printed Paper Stock

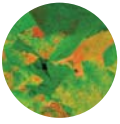
On-site Services:

- Consultation
- Sample Collection
- Report Review
- Expert Testimony



Food debris preventing proper application of heat-seal wrapper.

We maintain professional and business relationships with other laboratories where analysis beyond the capabilities of our laboratory can be obtained.



Hooke College of Applied Sciences offers a wide range of courses relating to the analysis of food contaminants. Our hands-on courses, taught by experts in the field, explore a variety of techniques and instruments and are IACET (International Association of Continuing Education and Training) approved.

Our food analysis-related courses include:

- Modern Polarized Light Microscopy
- Scanning Electron Microscopy
- Transmission Electron Microscopy
- Infrared Microscopy
- Raman Microspectroscopy
- Fiber Identification
- Microscopic Particle Handling: Particle Isolation, Manipulation and Mounting



Each Hooke College of Applied Sciences course is taught by recognized experts in their fields and in microscopy, with decades of real-world experience.



McCrone Microscopes & Accessories offers you proven microscopy equipment and accessories for the sample preparation and analysis of food contaminant samples. Our technical sales team has helped create custom instrument packages to fulfill the needs and specifications of laboratories around the country. We can help outfit your entire lab and provide ongoing product training and support.

Our products include:

- Nikon Microscopes/Measuring Systems/X-Ray Systems
- Olympus Microscopes
- Linkam Thermal Stages
- JEOL NeoScope II Benchtop SEM With EDS
- Digital Cameras
- Slide Reference Sets
- Reference Books
- Lab Supplies
- Product Training and Support at Your Site



Sample comparisons using McCrone Slide Reference Sets and/or the McCrone Atlas of Microscopic Particles are available at www.mccrone.com.