

***ANALYTICAL SERVICES***

**S C H W A R Z K O P F**

**M I C R O A N A L Y T I C A L**

**L A B O R A T O R Y , I N C**

*The reputation you can count on*

**56-19 37th Ave  
Woodside, New York 11377  
Telephone: (718) 429-6248  
Fax No. : (718) 429-5785  
Email: [Schwarzkopfmicro@aol.com](mailto:Schwarzkopfmicro@aol.com)**

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## **SCHWARZKOPF MICROANALYTICAL LABORATORY**

56-19 37<sup>th</sup> Avenue  
Woodside, New York 11377  
(718) 429-6248  
Fax: (718) 429-5785

### **About Our Laboratory**

Schwarzkopf Microanalytical Laboratory was established in 1946 by Dr. Francine Schwarzkopf and her husband, Dr. Otto Schwarzkopf. From its foundation to this day...Schwarzkopf Microanalytical has built and maintained a reputation for outstanding reliability, accuracy and rapid service in performing microanalysis.

We use sophisticated state of the art equipment but emphasize the expertise and experience of our analysts in the meticulous handling of each sample. Our chemists' experience extends to utilizing a wide range of wet chemistry methods, both standard and proprietary, which are developed in our laboratory. All of our analysts have scientific degrees and have from 5 to 25 years of experience in our laboratory.

Schwarzkopf provides an essential service to industry, universities, and government agencies as a reliable referee. We are recognized for our routine and non-routine analysis and are known especially for analysis of Sulfur, trace Halogens including Fluorine, and other trace elements as well as rare earth metals. Our work has been referred to in many academic and professional journals and Schwarzkopf has recently been chosen by NIST (the National Institute of Standards and Technology) to help establish the Acetanilide standard for CHN.

We provide customized service utilizing methods from ASTM, AOAC, the US Pharmacopeia/NF, European Pharmacopeia, Food Chemical Codex, TAPPI, SW846, Military Specifications, Reactor Development Technology Standards (RDT) and others on request.

The reputation of Schwarzkopf Microanalytical Laboratory has been earned through the years by meticulous quality control, attention to detail and experienced, talented and dedicated chemists. Perhaps and most importantly of all...focusing our energies in the area of our greatest expertise...elemental analysis.

Schwarzkopf Laboratory has served generations of scientists working in the forefront of research and the development of new technologies—from new drug applications to fiber optics and superconductive materials, from medical devices to cosmetics, from monitoring the synthesis of new compounds to monitoring the quality of products and raw materials. Four Nobel Prize winners have utilized our services and expertise in elemental analysis.

• **ANALYTICAL SERVICES – CAPABILITIES OVERVIEW**

**MICROANALYSIS:**

Elements, Functional Groups, Molecular Weight, Physical Measurements, Spectra.  
thermostable compounds.

Drybox handling of air sensitive or extremely moisture sensitive compounds.

**ORGANOMETALLICS:**

Drybox handling. Elemental analyses by special methods.

Metalloids, metals (Transition, Platinum, Rare Earth, etc.)

**INORGANIC MICROANALYSIS:**

Single crystals, doped crystals, ultra pure compounds, alloys, minerals.

**TRACE ANALYSES:**

Trace Metals

Trace Halogens, Sulfur, Nitrogen, Silicon, Phosphorus, others on request.

**ADDITIONAL TEST CAPABILITIES FROM:**

ASTM, AOAC, U.S. Pharmacopeia/NF, European Pharmacopeia,

Food Chemicals Codex, EPA/SW 846, TAPPI

**RESEARCH AND DEVELOPMENT OF ANALYTICAL PROCEDURES**

Audits by FDA, N.Y.S. (ELAP/NELAP), NRC regulated facilities.

FDA registration no. 2416429

N.Y.S. ELAP # 11028/NELAP

- **ROUTINE ELEMENTAL ANALYSES**  
 Carbon Hydrogen Nitrogen  
 Sulfur  
 Halogens (Chlorine, Bromine, Iodine)  
 Fluorine  
 Boron  
 Silicon  
 Phosphorus  
 Total Organic/Inorganic Carbon (TOC, TIC)  
 Total Organic Halides (TOX)
  
- **TRACE ELEMENTAL ANALYSES**  

Sulfur	Cadmium
Nitrogen	Lead
Halogens (Chlorine, Bromine, Iodine)	Mercury
Fluorine	Hexavalent Chromium
Silicon	
Boron	
Phosphorus	
Arsenic	
Selenium	
Total Organic Halides (TOX)	
  
- **METALS**  
 Atomic Absorption/gaseous hydride/cold vapor  
 Titration  
 Colorimetry  
 Separation of two or more metals by fusion, extraction, etc.  
 E.P. Toxicity

*Please call for more specific information: (718) 429-6248*

- **PHYSICAL MEASUREMENTS**

- Melting Point
  - Microdensity
  - Refractive index of Liquids
  - Macrodensity (air pycnometer)
  - Specific Gravity/Density
  - API Gravity

- Calorimetry (BTU)
  - Molecular weight – vapor pressure osmometry
  - Viscosity (Kinematic/Saybolt)

- **PHARMACEUTICAL TESTING**

- Elemental analysis
  - Metals
  - USP, AOAC, FCC, ASTM procedures
  - Method validations

- **SPECIAL SAMPLE HANDLING**

- Dry box handling for air sensitive or extremely moisture sensitive samples
  - Drying of sample (if required)
  - Loss on Drying - % Moisture
  - Water - Karl Fischer
  - Water - Azeotropic Distillation
  - Ashing
  - Fusions
  - Solvent extraction

Additional charge when special handling, extra preparation, or rapid service is required.  
Additional charge for returning samples or special disposal.

- **COAL AND OIL ANALYSIS**

Ultimate  
Proximate  
Calorimetry (BTU/lb)  
Asphaltenes  
API Gravity

Sulfur  
Viscosity  
Volatiles  
Flashpoint (Pensky-Martens cc)

- **FUNCTIONAL GROUP ANALYSES**

Alkoxy  
Separation of methoxyl from higher alkoxy-supplement  
Hydroxy-Alkyl (Morgan procedure)  
Hydroxyl (by esterification)  
Hydroxyl (active hydrogen)  
Epoxy  
Carboxyl  
Methoxyl  
Hydrogenation  
Micro saponification  
Acid Number  
Unsaturation (hydrogenation, Br#, I#)  
Acetate  
Hydroxypropoxy

- **SPECTRA**

Semi-Quantitative Emission Spectrum  
UV Spectrophotometry  
UV - VIS

*Other analyses on request. Please call for information: (718) 429-6248*

- **HOW TO PLACE AN ORDER**

In placing an order, please provide the following information on our Request for Analysis Slip.

1. All elements present (including Oxygen).
  2. Melting Point or Boiling Point.
  3. Sensitivity of sample, e.g. to air, water, temperature changes, physical impact, etc.
  4. Toxicity (hazards in handling)
  5. Theory or range of elements present.
  6. We will use our own judgment in selecting an appropriate analytical method, unless you indicate a specific determination.
  7. Obtain Purchase Order number or credit card (Visa, MC, AMEX) information and note number on slip or call.
  8. Recommendation for disposal or return of sample.
- 
- **SAMPLE SIZE**  
3-10 mg. for most single CHN determinations.  
10-20 mg. for single determination of other elements.

For trace analyses larger samples are required, depending on level and matrix.

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**SCHWARZKOPF MICROANALYTICAL LABORATORY**

56-19 37th Avenue, Woodside, NY 11377  
Tel. (718) 429-6248 Fax: (718) 429-5785

Date \_\_\_\_\_

**REQUEST FOR ANALYSIS**

Fax No. \_\_\_\_\_

Report to: \_\_\_\_\_ Tel. No. \_\_\_\_\_

Charge to: \_\_\_\_\_ P.O. No. \_\_\_\_\_

Sample No.: \_\_\_\_\_ Dry Box

Mp: \_\_\_\_\_ Bp: \_\_\_\_\_ Sensitive to: \_\_\_\_\_ Toxic

Dry at: \_\_\_\_\_ °C/ \_\_\_\_\_ mm Hygroscopic  Volatile

Elements Present: \_\_\_\_\_ Explosive

Type of Compound: \_\_\_\_\_ Mol. Wt.: \_\_\_\_\_

Analysis Request: \_\_\_\_\_

Theory or Range: C \_\_\_\_\_ H \_\_\_\_\_ N \_\_\_\_\_ S \_\_\_\_\_ Hal \_\_\_\_\_

Single  Duplicate  Duplicate if not in range

Remarks: \_\_\_\_\_

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Remarks: \_\_\_\_\_