

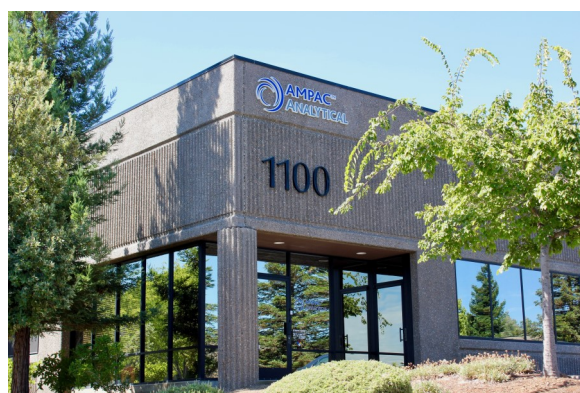
**cGMP laboratories delivering accurate, timely and reliable testing**

AMPAC Analytical is an expansion of AMPAC Fine Chemicals (AFC), an SK pharmteco company. With over 75 years of manufacturing experience, AFC expanded its capabilities to include contract analytical services.

AMPAC Analytical specializes in method development, validation, release testing and stability studies for cGMP Intermediates, APIs and a variety of Drug Product formulations.

**Our Services:**

- Method Development & Validation
- Release Testing
- Reference Standard Qualification
- Compendial Testing (USP / EP / BP / JP)
- Characterization (XRPD, NMR, FTIR)
- Chiral Separations
- Particle Size Analysis
- Elemental Impurities (ICP-MS) USP <232>, <233>, ICH Q3D
- Impurity Identification (GC-MS & High-Resolution, Accurate-Mass LC-MS/MS)
- ICH Stability & Storage inclusive of Photostability & Forced Degradation



XRPD

**Specialized Handling Capabilities:**

- Controlled Substances (Schedule II-V)
- Highly Potent Compounds (OEL > 0.1 µg/m<sup>3</sup>)
- Cytotoxic Compounds

**Additional Capabilities:**

- Microbiology
- Spectroscopy
- Calorimetry (DSC)
- Thermogravimetric Analysis (TGA)
- Mass Spectrometry
- Optical Rotation
- Osmolality



## Equipped with state of the art instrumentation

Type	Manufacturer	Model
Balances	Mettler / Sartorius	Various Types & Ranges
BioSafety Cabinets	Labconco / Terra Universal	36205043726 / 1688-41-PAK
Densitometers	Mettler	DE50 / SC1 / DE51
Digital Melting Point	Electrothermal	IA9200X1
Dissolution	Agilent	850-DS / 708-DS
DSC / TGA	TA Instruments	Q100 / Q500
FT-IR: Mid, Near, Diffuse Reflectance, Diamond Smart Orbit, Plates, Gases & KBr	PE / Nicolet-Thermo	Spectrum 100 / 400 / Frontier / 320
GC *	Agilent / Thermo	5975-MS, 6850, 6890 & 7890 / Trace 1300
GC-MS	Thermo	ISQ 7000
Headspace Analyzers	Agilent / Thermo	7697A, G1888 & 7694 / TriPlus RSH
HPLC **	Agilent	1100, 1200 & 1260
UHPLC	Agilent / Waters / Thermo	1290 / Acquity / Vanquish
UHPLC-MS	Thermo	ISQ EM
UHPLC-MS/MS	Agilent	6530 Q-TOF
ICP-MS	Thermo	ICP-MS – iCAP-Q
ICP-OES	Agilent / Thermo	ICP-OES – 720-ES / iCAP
Incubators	Sheldon / Binder	Various
Ion Chromatography	Thermo	ICS-5000
Jet Sieve Powder System	Hosokawa	M691415 / 390 Vac.
Liquid Particle Counter	Beckman-Coulter	9703
Microwave Digester	Milestone	Ultrawave / Ethos EZ
Moisture Analyzers	Mettler	HG53 / HR83
Muffle Furnace	Fisher / Thermo	Various
NMR (Multi Nuclei)	Bruker Avance III HD	300 MHz
Osmometer	Advanced Instruments	3250
Particle Size-Laser (Wet & Dry)	Sympatec / Malvern	Helos KR / Mastersizer 3000
pH Meters / Conductivity	Mettler	Various
Polarimeter	Rudolph	Autopol V
Refractometer	Mettler	RE40D
Stability Chambers ***	Caron / Thermo	Various
Titration (Acid / Base)	Mettler	T70
Titration (KF): Coulometric, Volumetric & Oven	Mettler	DL32 / C20X / T9 / Stromboli / C30S / InMotion
TOC Analyzers	GE / Shimadzu	Innovox / 900 / VCSH
UV-Vis	Agilent	8453
Vacuum Ovens	Sheldon / Hydrion	Various
XRPD	Panalytical	Empyrean

\* GC: Gas chromatography systems are equipped with TCD, FID, ECD & MS detectors.

\*\* HPLC: Liquid chromatography systems are equipped with DAD, VWD, RID, CAD, FLD, MS & MS/MS detectors.

\*\*\* Stability Chambers: Specialized humidity, temperature & other conditions as well as Photostability.