



**California-based laboratories delivering cGMP API & Drug Product testing**

AMPAC Analytical is an expansion of AMPAC Fine Chemicals (AFC). With over 75 years of manufacturing experience, AFC recently expanded its capabilities to include contract analytical services. AMPAC Analytical specializes in analytical development and testing of cGMP Intermediates, APIs, and Drug Products.

### Services:

- Method Development & Validation
- Release Testing (Intermediate, API, & Drug Product)
- ICH Stability & Storage
- Reference Standard Qualification
- Compendia Testing (USP / EP / BP / JP)
- Characterization (XRPD, NMR, & FTIR)  
Dissolution Testing
- Particle Size Analysis
- Elemental Impurities (ICP-MS) USP <232>, <233>, & ICH Q3D
- Impurity Identification (GC-MS & High-Resolution, Accurate-Mass LC-MS)



XRPD

### Specialized Handling Capabilities:

- Controlled Substances (Schedule II-V)
- Highly Potent Compounds (OEL > 0.1  $\mu\text{g}/\text{m}^3$ )
- Cytotoxic Compounds

### Additional Capabilities:

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



For more information about AMPAC Analytical, please contact us or visit our website:

+1 916 245 6500 Ext 118

[www.AmpacAnalytical.com](http://www.AmpacAnalytical.com)

1100 Windfield Way, El Dorado Hills, CA 95762

## AMPAC Analytical Equipment

Equipment Type	Manufacturer	Model
Balances	Mettler / Sartorius	Various Types and Ranges
BioSafety Cabinets	Labconco / Terra Universal	36205043726 / 1688-41-PAK
Densitometers	Mettler	DE50 / SC1 and 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, and KBr	PE / Nicolet-Thermo	Spectrum 100 / 400 / Frontier / 320
GC *	Agilent	5975-MS, 6850, 6890, & 7890
Headspace Analyzers	Agilent	7697A, G1888, & 7694
HPLC *	Agilent	1100, 1200, & 1260
HPLC-MS *	Agilent	Single Quad
ICP	Thermo	ICP-MS – iCAP-Q
ICP	Varian / Agilent	ICP-OES – 720-ES
Incubators	Sheldon / Binder	Various
Ion Chromatography	Thermo	2500 and IC-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	Sympatec	Helos KR
Particle Size- Laser	Malvern	2000 (Dry / Liquid)
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
TOC Analyzers	GE	Innovox / 900
TOC Analyzers	Shimadzu	VCSH
UHPLC	Agilent	1290
UHPLC	Waters	Acquity
UHPLC	Thermo	Vanquish
UHPLC-MS/MS	Agilent	Q-TOF
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.