

# LABORATORY INSTRUMENTS

## SAN GERMAN, PR

Chromatography	Manufacturer/Model
Gas Chromatograph (FID, TCD, FID/TCD) • 10	Agilent 6890
HPLC (UV/VIS, PDA, RI, Fluorescence Detector) • 10	Waters Alliance 2695, Agilent 1200
Gas Chromatograph (TCD)	Agilent 6850
Headspace Samplers • 3	Agilent G1888, Tekmar HT3

Dissolution/Elution Equipment	Manufacturer/Model
Apparatus II	Distek
Apparatus III	Agilent

Elemental Metals Equipment	Manufacturer/Model
Atomic Absorption Spectrophotometer HGAA/FAA • 1	Perkin Elmer 700 Atomic Absorption
Spectrophotometer Cold Vapor Technique (Mercury Analysis)	Perkin Elmer FIMS 100

Facility Monitoring	Manufacturer/Model
Surface Air Samplers (SAS) • 7	PBI 180, PBI 360
RCS High Flow Microbial Monitor	Biotest 940215
Particle Counter, Laser Type • 7	APC Plu, Climet CI-450t
Hydrocarbon Analyzers • 3	USI's G200P
Oxygen, CO <sub>2</sub> , CO Portable Meter	RKI Instruments Eagle
Hygrometers	V WR Scientific
Dew Point Meter/Moisture Analyzers • 3	General Electric MMY-245
Chronometers/Timers • 32	Fisher, Control Co., Radio Shack
Data loggers • 61	Sensitech TT-4, Logtag
Flow Meters, General Use • 14	Cole Parmer, VWR, Dwyer
Flow Meters, Digital • 3	Agilent, Shimadzu
Pressure Gauges • 9	ColeParmer, Noshok, WICA, Dwyer
Velometer	Alnor RY05
Thermocouple Validator	Kaye 2010

Spectroscopy	Manufacturer/Model
InfraRed (FTIR/ATR) • 2	Perkin Elmer Spectrum 100
Spectrophotometer UV/VIS • 3	Agilent 8453
Colorimeter • 2	HACH DR-850
Flame Photometer	Cole Palmer

Stability Storage	Manufacturer/Model
Stability Storage Chambers • 3	Bahnson

**Our labs are cGMP-compliant, FDA registered, DEA registered and ISO/IEC 17025:2005 accredited.**

Laboratory Equipment	Manufacturer/Model
Titration • 4	Mettler Toledo DL55, DL38, T50, V30
Titration, Coulometric	Mettler C30X
Total Organic Carbon Analyzer • 2	Tekmar Dohrmann Phoenix 8000, Fusion
Polarimeter	Rudolph Autopol IV
Polarimeter Quartz Calibration Cell • 2	Rudolph
Osmometer	Wescor Co.
Viscometers, Cannon Fenske • 4	Ace Glass, Cannon
Viscometers, Rotational • 2	Brookfield LVDV-II + P and RVDV-II + P
Viscometers, Ubbelohde • 7	Cannon
Viscometer, Zahn	BYK Gardner
Fluorometer	Turner Instr. 450/94000-01
Melting Point Apparatus, 0 to 400 °C	Electrothermal 9100
Refractometer, Digital	Rudolph J257
Particle Size, Rotap Sieve Shaker	WS Tyler RX29
Particle Size, Vibrational Shaker	Retsch AS 200
Particle Size, Air Jet	Hosokawa
Conductivity Meters • 3	Oakton 510, Mettler Toledo pH
Meters • 4	Corning 430, Mettler Toledo
Turbidimeters • 2	HF Scientific, Thermo
Scientific Muffle Furnace • 2	Thermoline
Balances, Top Loading • 4	Denver, Mettler
Balances, Analytical • 6	Mettler
Centrifuge • 3	Thermo Electron, Eppendorf
Density Tester, Scott Volumeter	Mettler
Tapped Density	Pharmatron
Texture Analyzer	Brookfield CT3 1000
Nitrogen Analyzer	Büchi K-355
Weight Per Gallon Cup • 2	BYK Gardner

Microbiology Testing Equipment	Manufacturer/Model
Microbial Identification	Bruker Maldi Biotyper Charles River Axcress™ System
Bacterial Endotoxin Kinetic/Turbidimetric System	Bio-Tek
Vitek Identification System	BioMerieux Vitek 2 Compact
Vitek Colorimeter	Vitek Special DR100
Vitek Densi-Chek Plus	BioMerieux
Incubators • 8	Fisher Scientific, Precision, VWR, Thermo Electron, LabLine, Lunaire
Autoclave • 2	Consolidated Corp. SSR3APB, AMSCO Eagle 3000
Microscope • 2	Fisher, Nikon
Stereoscope	Nova
Laminar Flow Hoods • 1	Baker
Colony Counter	Darfield Quebec 3327
Biological Safety Cabinet • 5	Esco, Baker, Nuair, Biogard



# Working Together to Protect Our Environment, and Improve Our Health.



## SAN GERMAN, PR

Pace Analytical Life Sciences operates a network of four (4) locations to provide contract product development and laboratory testing services to the pharmaceutical, biopharmaceutical / biologics, and medical device industries. Our customers range from new and innovative start-up companies through to the veteran industry leaders. Our contract product development services help bring new therapies to market and our contract laboratory services to ensure the purity, potency, safety, efficacy, and shelf life of marketed products.

Pace Analytical Life Sciences in San German, Puerto Rico, has been providing chemistry and microbiology testing services to industry for more than 30 years. Steady growth of our business has contributed to recent expansion of this facility to increase our capacity and offer new capabilities. Key attributes of this facility include:

- Recently expanded 26,000 ft<sup>2</sup> facility in San German
- FDA registered
- ISO / IEC 17025 accredited
- DEA registered for the handling of controlled substances, schedules II – V
- 3,000 ft<sup>2</sup> business office in Guaynabo
- Sample courier services

The laboratory has robust risk-management strategies to ensure continuous reliable operations:

- Diesel-powered electrical generators supply backup power to key equipment, such as computer network systems, stability storage chambers and microbiology incubators.
- The computer network systems and certain laboratory areas utilize Uninterruptible Power Systems (UPS) to cover the momentary gaps in supply, ease the transition and ensure clean power to critical systems.
- A continuous monitoring system (CMS) captures data (e.g., temperature and/or humidity) every few minutes in designated ambient laboratory areas, stability storage chambers and microbiology incubator systems to ensure that environmental control systems are operating properly.



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