



TOPICAL AND TRANSDERMAL DRUG PRODUCTS

Pace Analytical Life Sciences has more than 20 years experience with transdermal dosage forms, including R&D method development and routine QC. With Pace, you have a total laboratory partner—with chemistry, microbiology, physical testing and stability storage available at two lab locations: Minnesota and Puerto Rico. Plus, you can count on quality results. Pace is FDA-registered, experienced with highly-potent compounds, and DEA licensed, schedules I - V.

Chemistry Testing

- Assay / Content Uniformity
- Purity / Impurity
- Residual Solvents
- Parabens (methyl/propyl) Testing
- Water Content USP <921>
- Dissolution* / Drug Release Rate USP <724>
 - Apparatus 5 (Paddle over disk)
 - Apparatus 6 (cylinder) modified
 - Apparatus 7
 - Standard vessels & 100-ml mini-vessels

Microbiology Testing

- Microbial Limits Testing, USP <61>/<62>
- Antimicrobial Effective Testing, USP <51>
- Sterility <71>

Physical Testing

- Instron Testing (2-, 20-, 100-, and 200-lb load cells w/ various grips)
- Peel Force, peel to steel 90o and 180o, ASTM D3330, Method A
- Release Liner Adhesion, ASTM D3330, Method D
- Probe-Tack Testing, ASTM D2979
- Shear Testing, ASTM D3654, Method A
- Viscosity Testing
- Penetrometer Testing (gels)
- Burst-Creep Package Integrity, ASTM F1140-07

Method Development & Validation

- USP <1092>: Dissolution Procedure Validation
- USP <1225>: Analytical Procedure Validation

**Un-interruptible power supply (UPS) for long-runtime profiles*

** Back-up generator*



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



**PACE ANALYTICAL LIFE SCIENCES
MINNESOTA LABORATORY**

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