

# Characterization methods for pharmaceutical materials

Norlab offers a whole range of testing instruments for pharmaceuticals.

Here pharmaceutical products are regarded as materials with manufacturing processes within the context of the testing devices distributed by Norlab, rather than medical compounds with therapeutic characteristics. Pharmaceutical technologies produce pharmaceutical agents in their final delivery form, which means that the task is to characterize a powder, a dispersion or a tablet. Norlab offer testing instruments for dispersions (stability analysis), for powders (BET surface area, dynamic contact angle) and for tablets (pore structure, dissolution, disintegration).



Parameter	Method	Instrument
BET surface area and pore analysis	<a href="#">Gas adsorption</a>	<a href="#">3P micro series</a> <a href="#">3P meso series</a> <a href="#">3P sync series</a> <a href="#">3P surface DX</a>
Density, solids	<a href="#">Gas pycnometry</a>	<a href="#">3P densi 100</a>
Dispersion stability	<a href="#">Analysis of the transmission and backscattering behaviour</a>	<a href="#">MultiScan MS 20 dispersion stability analysis system</a>
Dissolution performance	USP apparatus 1, 2, 5 and 6, plus intrinsic and small volume dissolution	<a href="#">Water bath dissolution systems</a> <a href="#">Bathless dissolution systems</a> <a href="#">In-situ fiber optic UV systems</a>
Particle dispersibility studies	<a href="#">Non-invasive NMR liquid relaxation technology</a>	<a href="#">MagnoMeter XRS</a>
Particle shape	<a href="#">Image analysis</a>	<a href="#">BeVision D2</a> <a href="#">Bettersizer S3 Plus</a>
Particle size, concentrated dispersions	<a href="#">Acoustic spectrometry</a>	<a href="#">DT-1202</a> <a href="#">DT-100</a>
Particle size, nanometer range	<a href="#">Dynamic light scattering</a>	<a href="#">BeNano series</a>
Particle size, powders	<a href="#">Laser diffraction</a>	<a href="#">Bettersizer S3 Plus</a> <a href="#">Bettersizer S3</a> <a href="#">Bettersizer 2600</a> <a href="#">Bettersizer ST</a>
Pore volume and size distribution	<a href="#">Mercury intrusion porosimetry</a>	Contract analysis <a href="#">Please ask for a quote</a>
Purity check of liquids	<a href="#">Dynamic contact angle measurement</a>	<a href="#">Dynamic contact angle measuring devices and tensiometers</a>
Purity check of liquids	<a href="#">Interfacial rheology</a>	<a href="#">Spinning drop video tensiometers</a>

Parameter	Method	Instrument
Purity check of liquids	<a href="#">Optical contact angle measurement</a>	<a href="#">Optical contact angle systems</a>
Solids concentration of suspensions	<a href="#">Non-invasive NMR liquid relaxation technology</a>	<a href="#">MagnoMeter XRS</a>
Water uptake and release	<a href="#">Dynamic vapor sorption (DVS)</a>	<a href="#">3P graviSorb series</a>
Wettability of solid surfaces	<a href="#">Dynamic contact angle measurement</a>	<a href="#">Dynamic contact angle measuring devices and tensiometers</a>
Wetted surface area of suspensions	<a href="#">Non-invasive NMR liquid relaxation technology</a>	<a href="#">MagnoMeter XRS</a>
Zeta potential, concentrated dispersions	<a href="#">Electroacoustic spectrometry</a>	<a href="#">DT-1202</a> <a href="#">DT-310</a> <a href="#">DT-300</a>