



As quality control (QC) plays an increasingly important role in the compound management community, Specs' unique approach has set a standard within the industry.

At Specs, all compounds are subjected to strict quality control procedures. With state-of-the-art equipment and dedicated staff, Specs continuously checks both the integrity and purity of all incoming compounds before they are released into the Specs compound library. Both LCMS and $^1\text{H-NMR}$ analyses are carried out per default to ensure that our strict purity guidelines are maintained (>90% for screening compounds, >95% for building blocks and >80% for natural products). With the combination of these two powerful, fundamentally different methods we have set the standard within the industry.

LCMS

We routinely use a Waters ACQUITY UPLC-SQD system which is set up to analyze samples from vials and 96- and 384-well plates with a weekly average through-

put of 3500 compounds. Compounds can be analyzed and interpreted following the standard Specs QC protocol as well as your own in-house routine.

$^1\text{H-NMR}$

All NMR samples are prepared under an argon atmosphere in 600ml of DMSO- d_6 and analyzed the same day they are dissolved to minimize water uptake. NMR spectra are recorded on a Varian 400 MHz NMR spectrometer with a capacity of 1000 samples per week. Analysis, interpretation and data output can be customized to meet your in-house requirements thus ensuring uniformity in your QC data.

We offer our expertise as an outsourced service in which Specs can act as a partner for your quality control projects. Several pharmaceutical companies and NGO's have already recognized the ability to incorporate our services as an integral part of their own quality assurance and have used our facilities and knowhow to analyze their own in-house collections and their newly synthesized research compounds.