



TOSOH

YOUR SPECIALIST IN OLIGO SEPARATION



Tosoh Bioscience is a leading global supplier of liquid chromatography solutions for purification and analysis. Our portfolio encompasses a comprehensive line of chromatography media, columns, instrumentation, and detectors. The TSKgel media and (U)HPLC columns have a long track record for the purification and characterization of nucleic acid therapeutics such as oligonucleotides. They are used in R & D, process development, manufacturing, and quality control.

"Our team of chromatography experts enables our biopharma partners to provide safe and efficient therapies against life threatening diseases"

SEPARATION & PURIFICATION



Best-in-Class Purification Resins

Highest purity from lab to production

TSKgel® and TOYOPEARL® chromatography media are specifically designed to provide superior performance for the purification of therapeutic oligonucleotides at lab, pilot, and commercial scales. TSKgel SuperQ-5PW AEX resin is used in the manufacturing process of many commercial ASO and siRNA drugs. HIC media such as TSKgel Phenyl-3PW are ideally suited to purify and cleave trityl-on oligos in a one-step procedure. A range of SkillPak™ pre-packed columns in various dimensions facilitates the development and scale-up of robust and efficient purification protocols.



U/HPLC Analysis & Quality Control

Robust and reproducible analysis

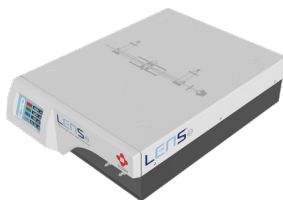
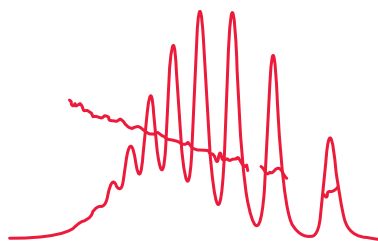
TSKgel analytical columns are designed for researchers seeking the highest level of performance. Since the introduction of the first SEC column in 1971, TSKgel columns became increasingly popular in biotechnology and biopharma. Covering the total range of UHPLC, HPLC, and SEC, these columns offer high resolution, excellent reproducibility, and long column life. For the analysis of nucleic acids we recommend TSKgel Q-STAT and DNA-NPR anion exchange and OligoDNA-RP reversed phase columns.



SEC-MALS Characterization

Sensitive molecular weight measurement

The LenS3™ Multi-Angle Light Scattering (MALS) detector for macromolecule characterization with UHPLC and HPLC provides unmatched signal-to-noise at extreme angles resulting in the most accurate values for the radius of gyration and molecular weight. With dedicated TSKgel SEC columns, this detector can be applied to characterize therapeutic nucleic acids and delivery vehicles such as AAVs and LNPs by SEC-MALS.



**Support
& Services**
Specialized and
ready to support you!

Our expert team of chromatographers is committed to providing prompt and skilled service and support:

- recommend the best instrument, column, or resin for your application
- support you with installation, service, maintenance, method development, and troubleshooting
- guide you with packing large columns
- provide supporting data when filing a new drug