



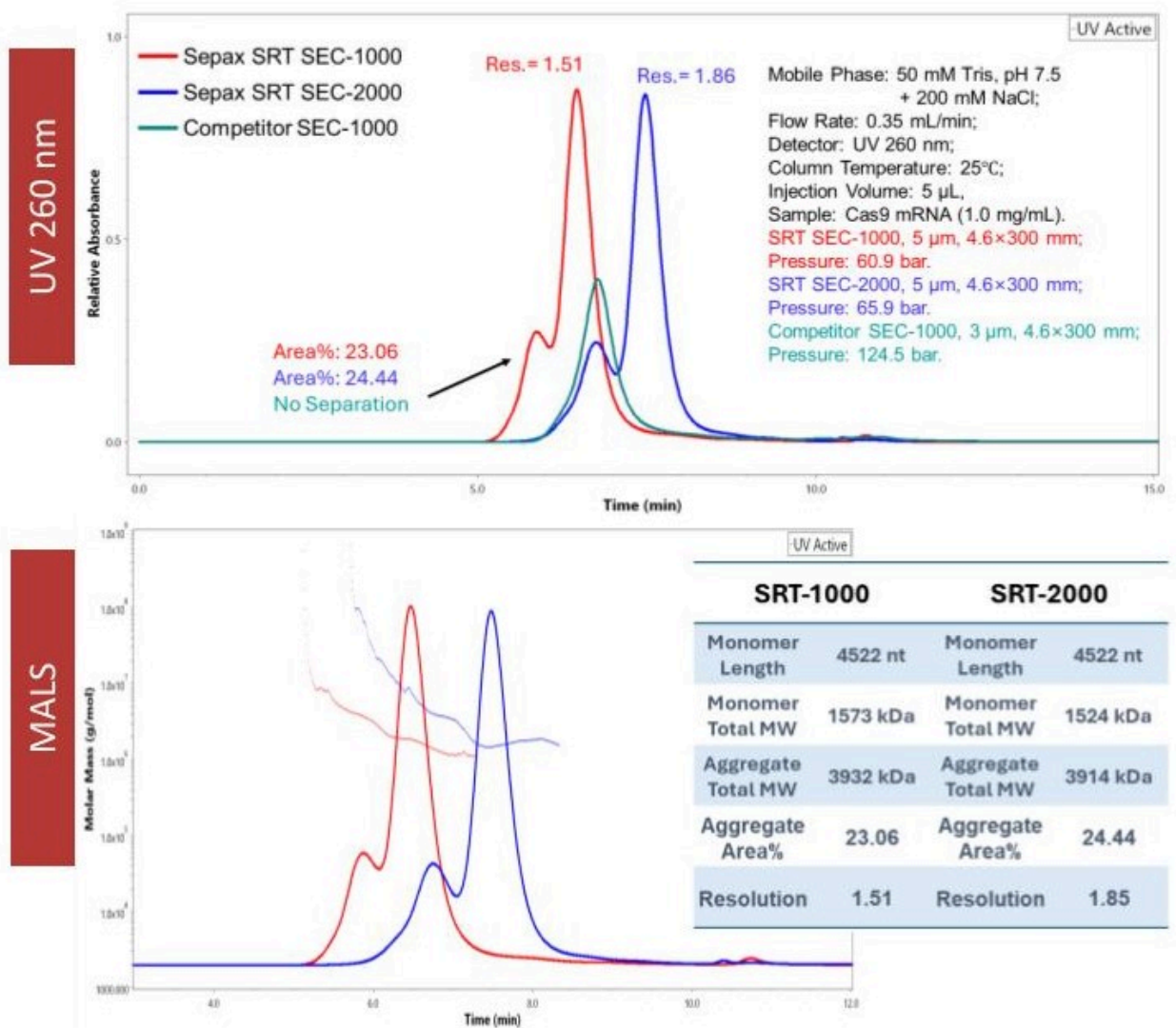
Cas9 mRNA Separation on SEC-MALS

Genome editing is one of the most exciting new areas of therapeutic development, in which Cas9 mRNA genome editing, often referred to as CRISPR-Cas9 technology, is considered one of the most promising developments. In this study, we present SEC HPLC data to analyze the effect of pore size, surface chemistry, type of buffer system, salt concentration and temperature on the aggregate separation of commercially available Cas9 mRNA by using both UV and MALS detections.

Sepax **SRT[®] SEC 1000 Å and 2000 Å columns** outperform competitor's 1000 Å SEC column under all buffer systems, with significantly higher resolution. Sepax 2000 Å SEC column gives the highest resolution among the three columns being screened, which demonstrates a larger pore size is more suitable for the Cas9 mRNA, with 4522 nucleotides size. Sepax SRT SEC surface chemistry also provides unique selectivity and universal buffer compatibility with 50% lower pressure, which is important for developing a robust, accurate, and reliable analytical method.

<p>Cas9 mRNA</p> <p>w 5mOU modified Single-stranded, 4522 nucleotides, ~1449 kDa Concentration: 1 mg/mL</p>	<p>3 SEC Columns</p> <p>Sepax SRT SEC-1000</p> <p>5 µm, 1000 Å, 4.6 x 300 mm Part Number: 215950-4630</p>
<p>4 Buffer Systems</p> <p>150 mM PB Buffer 1x PBS buffer Tris + NH₄Cl Buffer Tris + NaCl Buffer</p>	<p>Sepax SRT SEC-2000</p> <p>5 µm, 2000 Å, 4.6 x 300 mm Part Number: 215980-4630</p>
<p>2 Temperatures</p> <p>25 °C vs 50 °C</p>	<p>Competitor W SEC-1000</p> <p>3 µm, 1000 Å, 4.6 x 300 mm</p>

Cas9 mRNA (4522nt) SEC UV-MALS - Tris + NaCl Buffer



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Lastly, we just wanted to carve out time to say thank you! We would like to express our sincere gratitude to all our loyal customers and partners for giving us the chance to add value to your everyday research, applications and workflow. Happy Thanksgiving from all of us at Sepax!

Questions? Contact us today (877) SEPAX-US

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