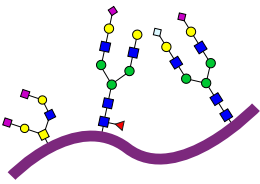
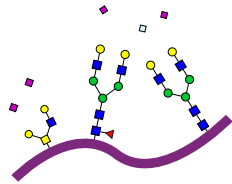
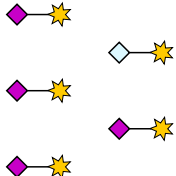
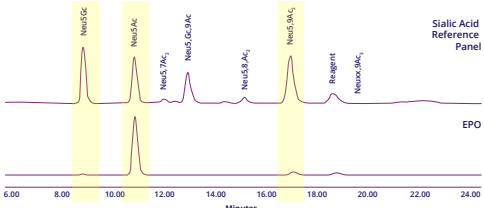


# LudgerTag Sialic Acid Profiling Workflow

| Preparation**                                                                     | Release                                                                           | Labelling                                                                                                                                 | RP-HPLC Analysis                                                                    |                                          | Results                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                                         |  |                                          | <p><b>Regulatory compliance</b> during the quality control of biopharmaceuticals:</p> <p>1) Drug <b>safety</b> and <b>efficacy</b></p> <p>2) Batch-to-batch <b>consistency</b></p> |
| Sample aliquots in a vacuum-centrifuge for 1-2hrs                                 | <b>LT-KDMB-A1</b><br><b>LT-KDMB-96</b><br>2M acetic acid @80°C for 2hrs           | <b>LT-KDMB-A1</b><br><b>LT-KDMB-96</b><br>DMB @50°C for 3hrs                                                                              | <b>LS-R1-4.6x150</b><br>25 µL for 30 min                                            | <b>LS-UR2-2.1x100</b><br>5 µL for 15 min |                                                                                                                                                                                    |
| Standards & Controls (run with your samples)                                      |                                                                                   |                                                                                                                                           |                                                                                     |                                          | Key Indicators                                                                                                                                                                     |
| Fetuin glycoprotein standard<br><b>GCP-FET-50U-X4</b>                             |                                                                                   | N-acetylneuraminic acid quantitative standards <b>CM-NEU-AC-01</b><br>N-glycolyneuraminic acid quantitative standards <b>CM-NEU-GC-01</b> |                                                                                     |                                          | <b>Neu5AC &amp; Neu5Gc</b> amounts in nmol/mg of protein                                                                                                                           |
| A2G2S2 glycopeptide standard<br><b>BQ-GPEP-A2G2S2-10U</b>                         |                                                                                   | N-acetylneuraminic acid qualitative standard <b>CM-NEU5,9AC2-01</b><br>Sialic acid reference panel <b>CM-SRP-01-C</b>                     |                                                                                     |                                          | Relative proportions of <b>Neu5,9,Ac2</b>                                                                                                                                          |

\*\*Not all sample types require drying (Preparation). E. g. blood plasma and serum samples can be analyzed directly.