LC system/ FLR flow cell passivation (with column)

* Preparation of 10 mg/mL Fetuin Solution:
  1. Weight 10 mg Fetuin (Sigma F3004 or equivalent) in 1.5 mL tube
  2. Dissolve all solid chemicals with 1mL of 18.2 MΩ water. Vortex to mix well
  3. Transfer fetuin solution in LC vials
* Conditioning Protocol:
  1. Equilibrate column with initial mobile phase conditions at specific column temperature used for LC gradient. Make sure system pressure change is no more than 10 psi within 1 min.
  2. Make one blank injection of water on glycan column with desired LC gradient.
  3. Make at least 3 repeating injections of 10 mg/mL Fetuin solution on glycan column with desired LC gradient.
  4. Make at least one blank injection of water on column after conditioning with Fetuin to minimize carry-over
  5. FLR flow cell should be conditioned well and ready to use
* Example: Sample list of Glycan BEH Amide column conditioning with Fetuin

|  |  |  |  |
| --- | --- | --- | --- |
| Purpose | Sample Name | LC gradient | Inj Vol |
| System/ Column Equilibration | n/a | Initial mobile phase condition of gradient | n/a |
| Blank | Water Blank | Desired gradient used for analysis | 1 µL |
| Column conditioning: repeating inj. 1 | Fetuin (10 mg/mL) | Desired gradient used for analysis | 1 µL |
| Column conditioning: repeating inj. 2 | Fetuin (10 mg/mL) | Desired gradient used for analysis | 1 µL |
| Column conditioning: repeating inj. 3 | Fetuin (10 mg/mL) | Desired gradient used for analysis | 1 µL |
| `Blank | Water Blank | Desired gradient used for analysis | 1 µL |
| Analysis – sample | Released glycan sample | Desired gradient used for analysis | 1 µL |