**Identification of metabolic pathways involved in the biotransformation of Eslicarbazepine acetate using UPLC- MS/MS, human microsomal enzymes and *in silico* studies**

**Supplementary Material**

**Table S1:Retention time (RT) and relative retention time (RRT) of eslicarbazepine acetate and its metabolites (M1-M3).**

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | **RT(min)** | **RRT\*** | **Molecular Weight** |
| **M1** | 2.26 | 0.72 | 254.28 |
| **M2** | 2.58 | 0.82 | 252.27 |
| **M3** | 1.82 | 0.58 | 227.26 |
| **ECA** | 3.12 | 1.00 | 296.32 |

 \*RRT =${RT ofmetabolite}/{RT of ECA}$

**Table S 2: Matrix Effect data obtained for M3**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **LQC** | **MQC** | **HQC** |
| **Matrix sample**  | **Reference sample**  | **Matrix sample** | **Reference sample** | **Matrix sample** | **Reference sample** |
| 1 | 12536 | 12628 | 213456 | 212654 | 306764 | 309728 |
| 2 | 12386 | 12852 | 206047 | 201503 | 319546 | 312065 |
| 3 | 11745 | 11615 | 218821 | 208707 | 316411 | 318004 |
| 4 | 11870 | 11952 | 209441 | 212542 | 309743 | 311982 |
| 5 | 12480 | 11866 | 212457 | 209159 | 307484 | 302297 |
| 6 | 13865 | 11944 | 209276 | 208879 | 312378 | 304732 |
| **Mean** | 12480.33 | 12142.83 | 211583 | 208907.3 | 312054.3 | 309801.3 |
| **SD** | 753.992 | 483.632 | 4409.498 | 4054.053 | 5087.793 | 5642.371 |
| **% CV** | 6.041 | 3.982 | 2.084 | 1.941 | 1.631 | 1.822 |
| **Matrix factor** | 97.29 | 98.73 | 99.27 |