**Table 1**. Concentrations of reactions used to determine the pathways

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Concentrations(M) Real Conc in effluent | | | | | | | |
| FA/F | Tri/LA | Reaction | 2-Furoic acid | Lauric acid | 2-Dodecanoyl furan | 12-tricosanone | Furan |
| 0.248445357 | 0.010434447 | FA+TRI 1 | 0 | - | - | 0.00963 | 0.13574 |
| 0.250230593 | 0.0108282 | FA+TRI 2 |  |  |  | 0.01069 | 0.09156 |
| 0.25171829 | 0.010729762 | FA+TRI 3 |  |  |  | 0.01055 | 0.11635 |
| 0.247552739 | 0.151424388 | LA+FA 1 | 0 | 0 | 0.12364 | 0.01011 | 0.06408 |
| 0.249933054 | 0.149760383 | LA+FA 2 | 0 | 0.00105 | 0.12742 | 0.00954 | 0.06811 |
| 0.250528132 | 0.150425985 | LA+FA 3 | 0 | 0 | 0.12219 | 0.00835 | 0.05022 |
| 0.07149503 | 0.154752396 | LA+F 1 | 0 | 0 | 0 | 0.07705 | 0.06871 |
| 0.063659958 | 0.151424388 | LA+F 2 | 0 | 0 | 0 | 0.07404 | 0.05890 |
| 0.071193681 | 0.151424388 | LA+F 3 | 0 | 0 | 0 | 0.07455 | 0.06797 |

**Table 2**. Concentrations for the Time data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Concentrations(M) Real Conc in effluent | | | | |
| Time | LA Initial Conc | FA initial conc | 2-Dodecanoyl furan | 12-tricosanone | Furan |
| 0 | 0.15093 | 0.25053 | 0.05043 | 0.00334 | 0.03126 |
| 15 | 0.14843 | 0.25142 | 0.08422 | 0.00703 | 0.07035 |
| 30 | 0.15142 | 0.24874 | 0.10252 | 0.01215 | 0.04133 |
| 60 | 0.15043 | 0.25261 | 0.10906 | 0.00855 | 0.04800 |
| 75 | 0.14976 | 0.24993 | 0.11786 | 0.00861 | 0.05748 |
| 90 | 0.15076 | 0.25053 | 0.12364 | 0.01011 | 0.06408 |
| 120 | 0.14976 | 0.24993 | 0.11431 | 0.00924 | 0.05470 |