

|       | Phosphatidyl<br>inositol-<br>Archeol<br>[m/z 917/939] | Caldarchaeol<br>[m/z 1316] | Phosphatidyl<br>inositol-<br>Caldarchaeol<br>[m/z<br>1558/1580] | Dihexose-<br>Caldarchaeol<br>[m/z 1640] | Dihexose-<br>Phosphatidyl<br>inositol-<br>Caldarchaeol<br>[m/z 1882/1904] |
|-------|-------------------------------------------------------|----------------------------|-----------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------|
| 68 °C | 17%                                                   | 9%                         | 9%                                                              | 52%                                     | 13%                                                                       |
| 75 °C | 7%                                                    | 12%                        | 4%                                                              | 66%                                     | 11%                                                                       |
| 82 °C | 21%                                                   | 13%                        | 11%                                                             | 46%                                     | 9%                                                                        |

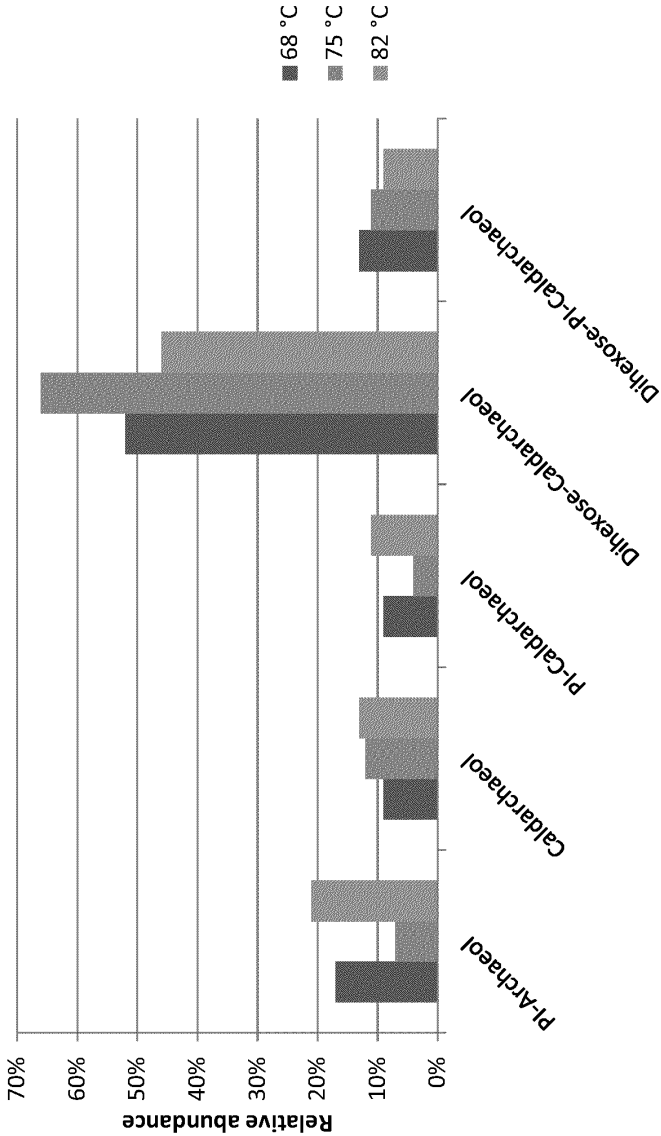


Fig. 1

|                       | Phosphatidyl<br>inositol-<br>Archeol<br>[m/z 917/939] | Caldarchaeol<br>[m/z 1316] | Phosphatidyl<br>inositol-<br>Caldarchaeol<br>[m/z<br>1558/1580] | Dihexose-<br>Caldarchaeol<br>[m/z 1640] | Dihexose-<br>Phosphatidyl<br>inositol-<br>Caldarchaeol<br>[m/z 1882/1904] |
|-----------------------|-------------------------------------------------------|----------------------------|-----------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------|
| 0.010 h <sup>-1</sup> | 21%                                                   | 13%                        | 11%                                                             | 46%                                     | 9%                                                                        |
| 0.020 h <sup>-1</sup> | 14%                                                   | 5%                         | 10%                                                             | 58%                                     | 14%                                                                       |
| 0.034 h <sup>-1</sup> | 7%                                                    | 12%                        | 4%                                                              | 66%                                     | 11%                                                                       |

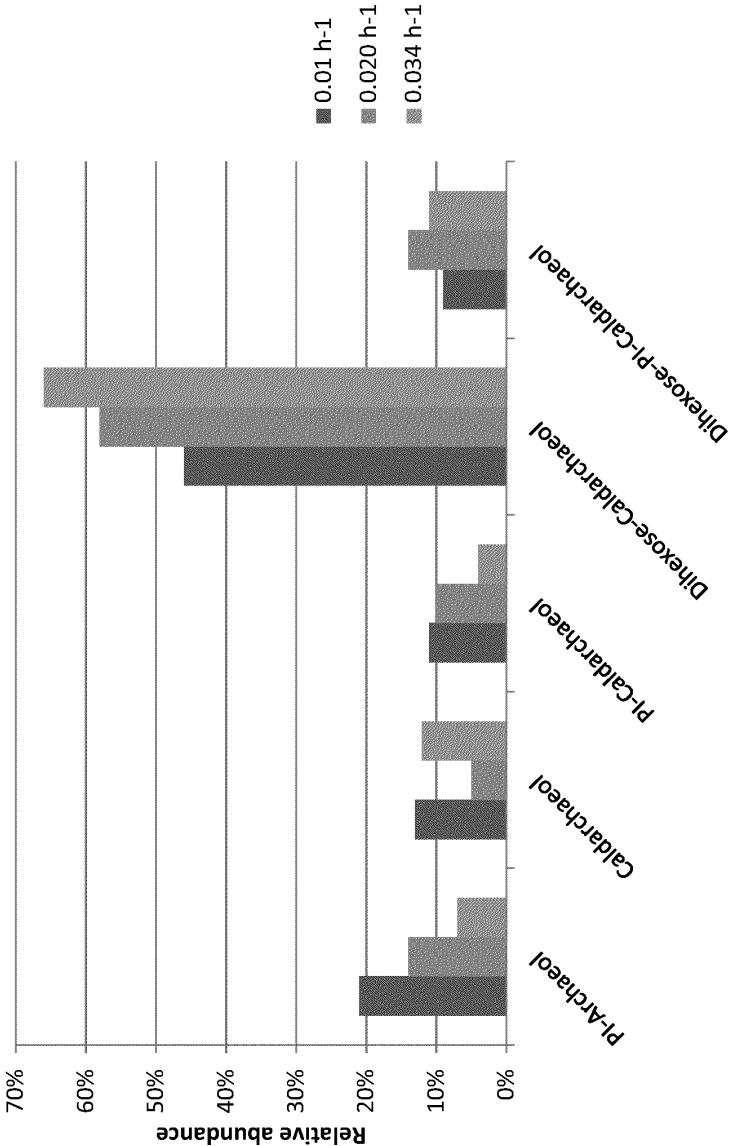


Fig. 2

|                 | Phosphatidyl<br>inositol-<br>Archeol<br>[m/z 917/939] | Caldarchaeol<br>[m/z 1316] | Phosphatidyl<br>inositol-<br>Caldarchaeol<br>[m/z 1558/1580] | Dihexose-<br>Caldarchaeol<br>[m/z 1640] | Dihexose-<br>Phosphatidyl<br>inositol-<br>Caldarchaeol<br>[m/z 1882/1904] |
|-----------------|-------------------------------------------------------|----------------------------|--------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------|
| Fed-batch       | 14%                                                   | 5%                         | 10%                                                          | 58%                                     | 14%                                                                       |
| Continuous mode | 7%                                                    | 12%                        | 4%                                                           | 66%                                     | 11%                                                                       |

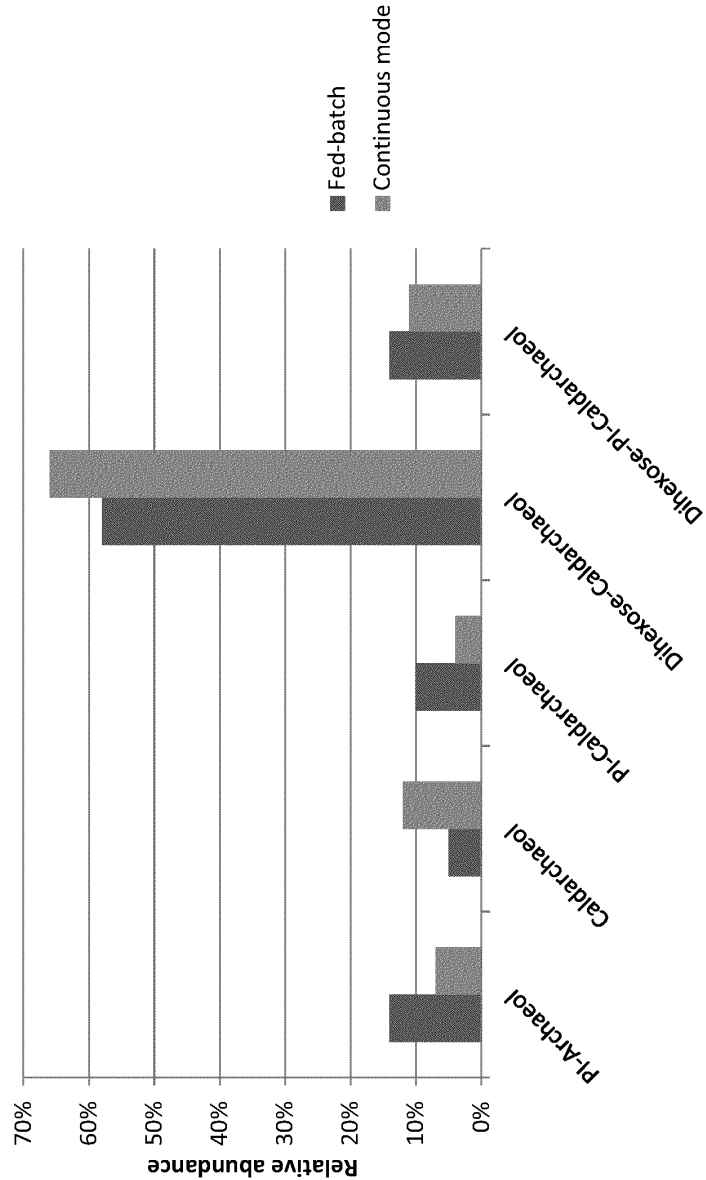


Fig. 3

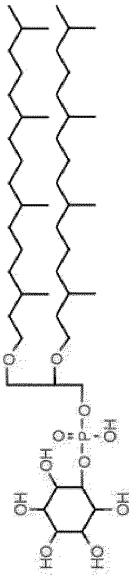
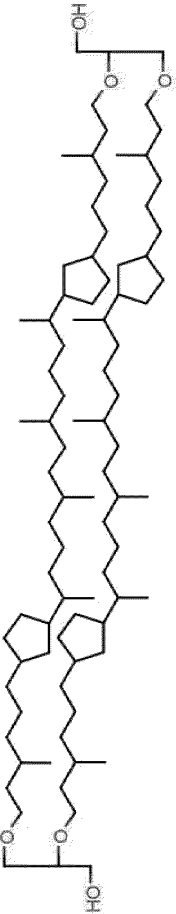
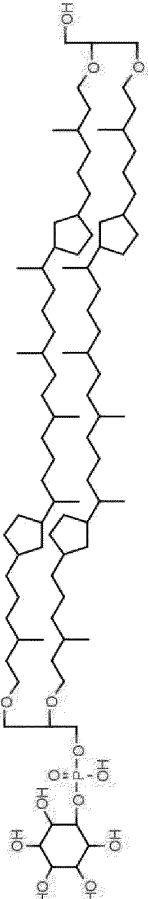
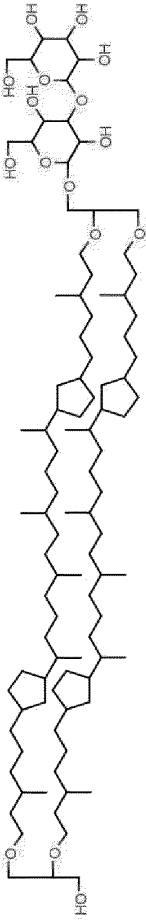
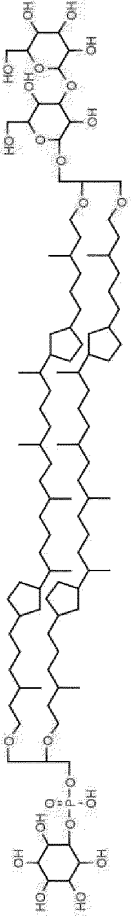
|                                                                           |                                                                                      |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Phosphatidyl<br>inositol-Archaeol<br>[m/z 917/939]                        |    |
| Caldarchaeol<br>[m/z 1316]                                                |    |
| Phosphatidyl<br>inositol-<br>Caldarchaeol [m/z<br>1558/1580]              |    |
| Dihexose-<br>Caldarchaeol<br>[m/z 1640]                                   |   |
| Dihexose-<br>Phosphatidyl<br>inositol-<br>Caldarchaeol [m/z<br>1882/1904] |  |

Fig. 4

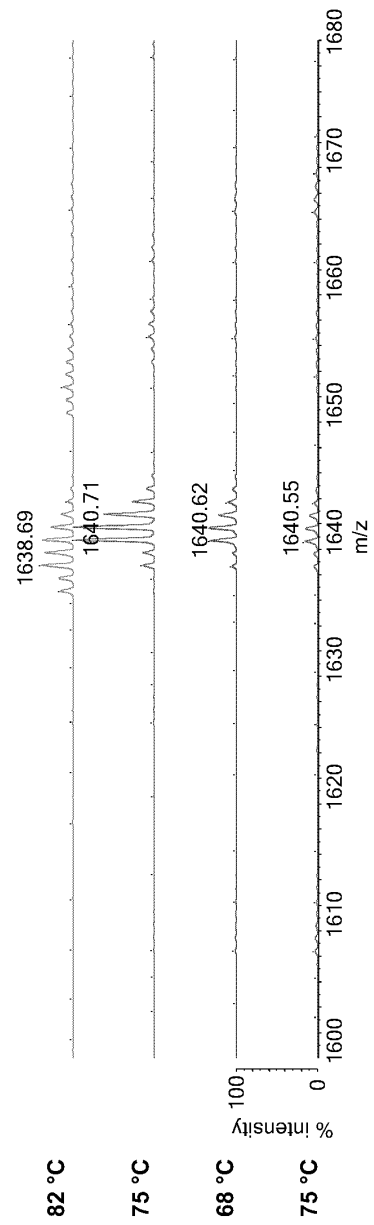
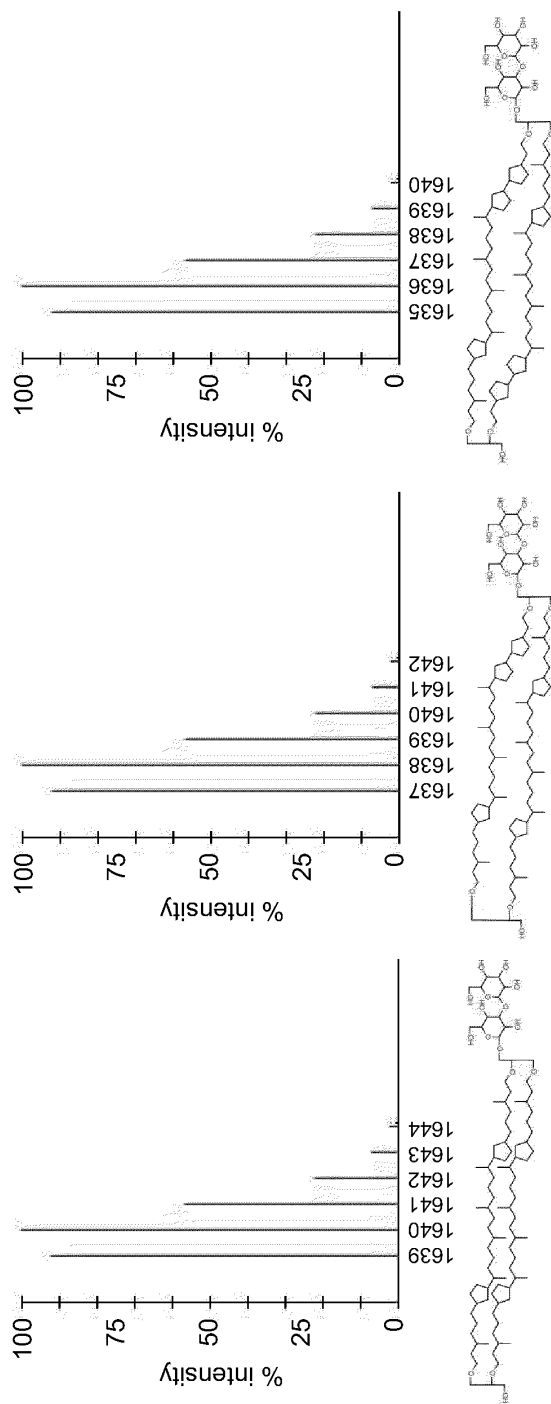


Fig. 5

Fig. 6

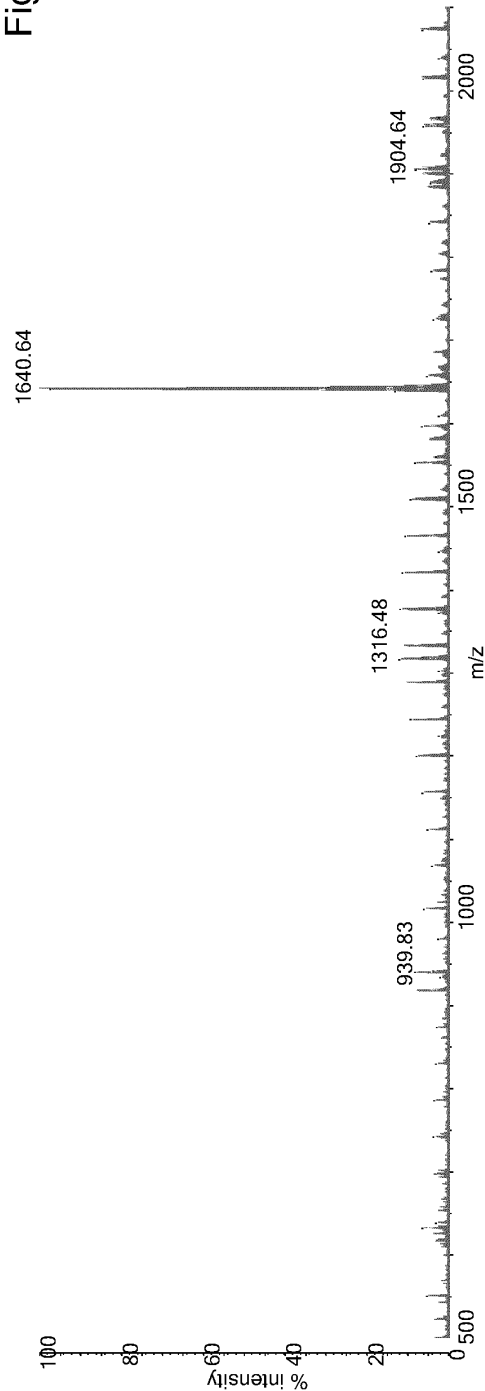


Fig. 7

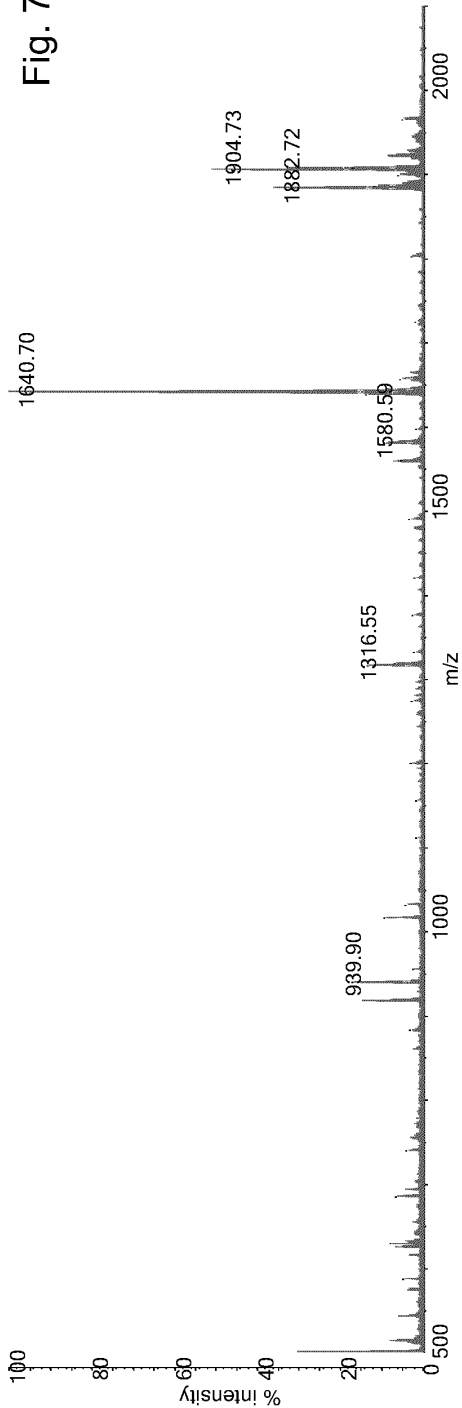


Fig. 8

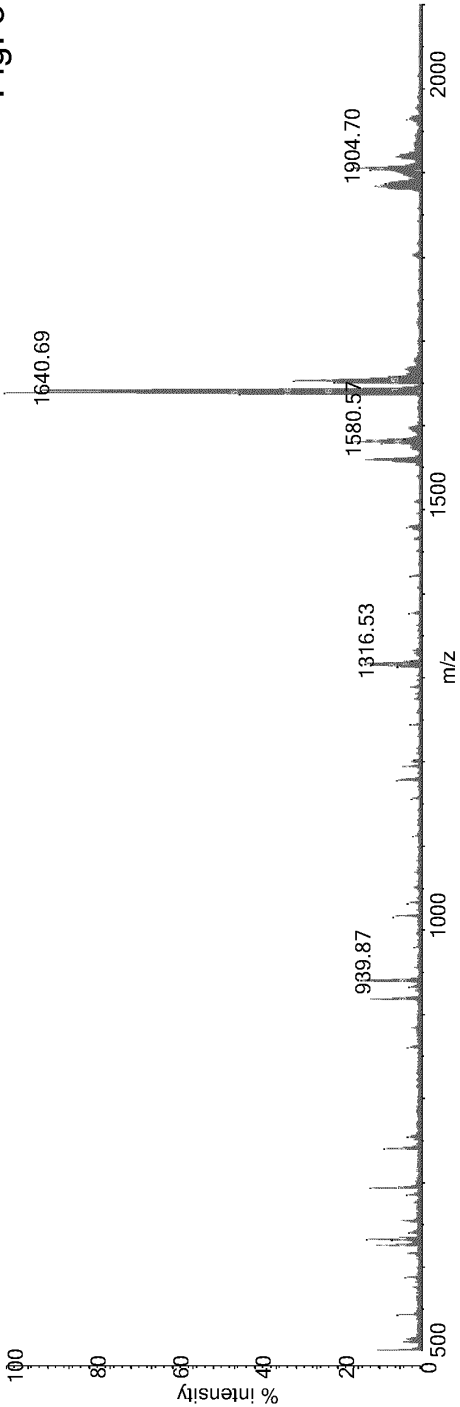


Fig. 9

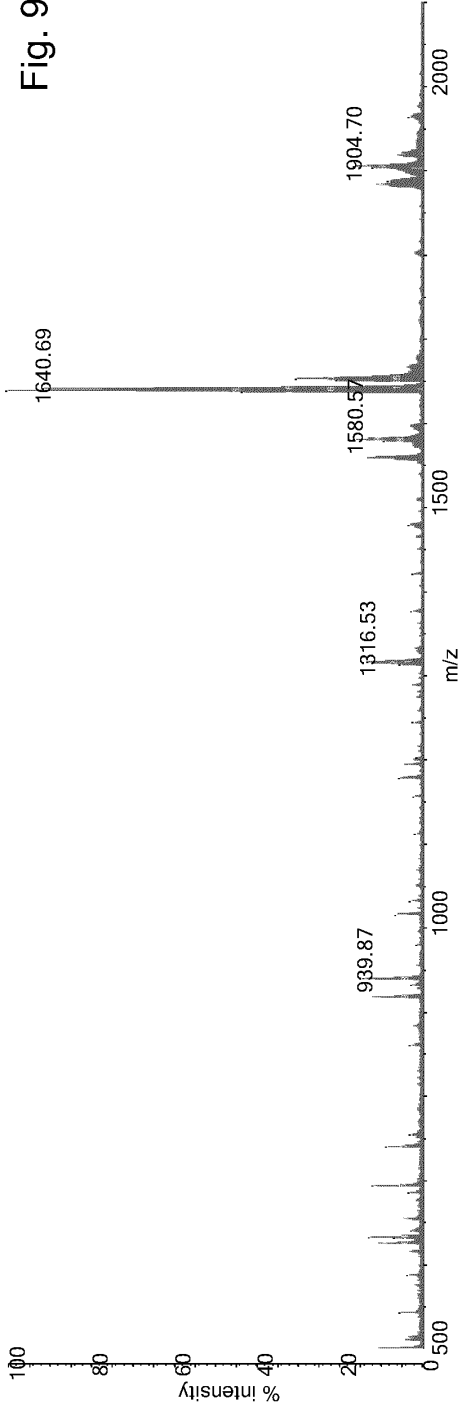


Fig. 10

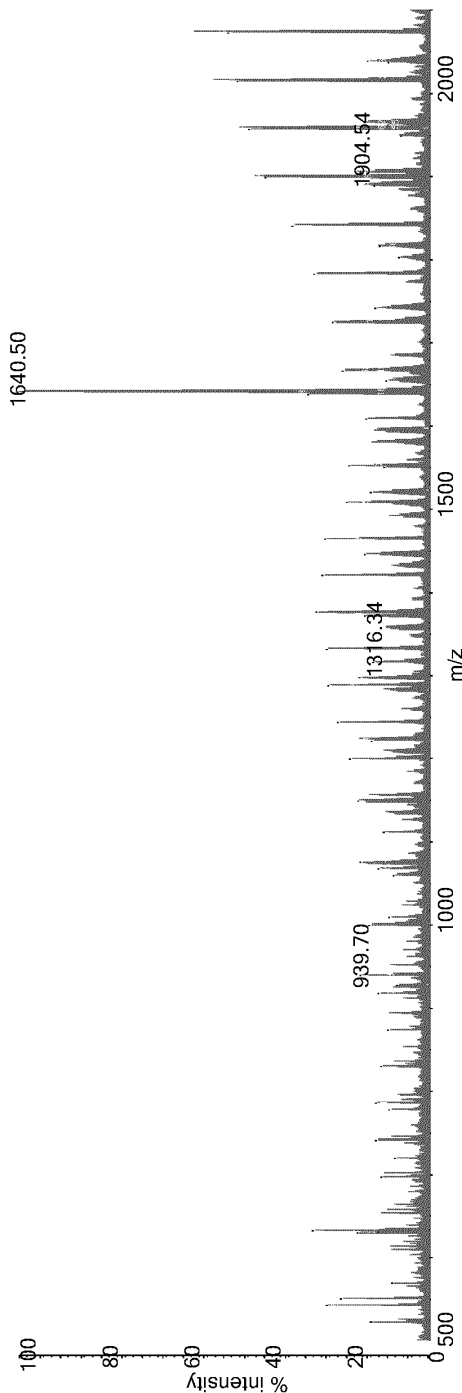


Fig. 11

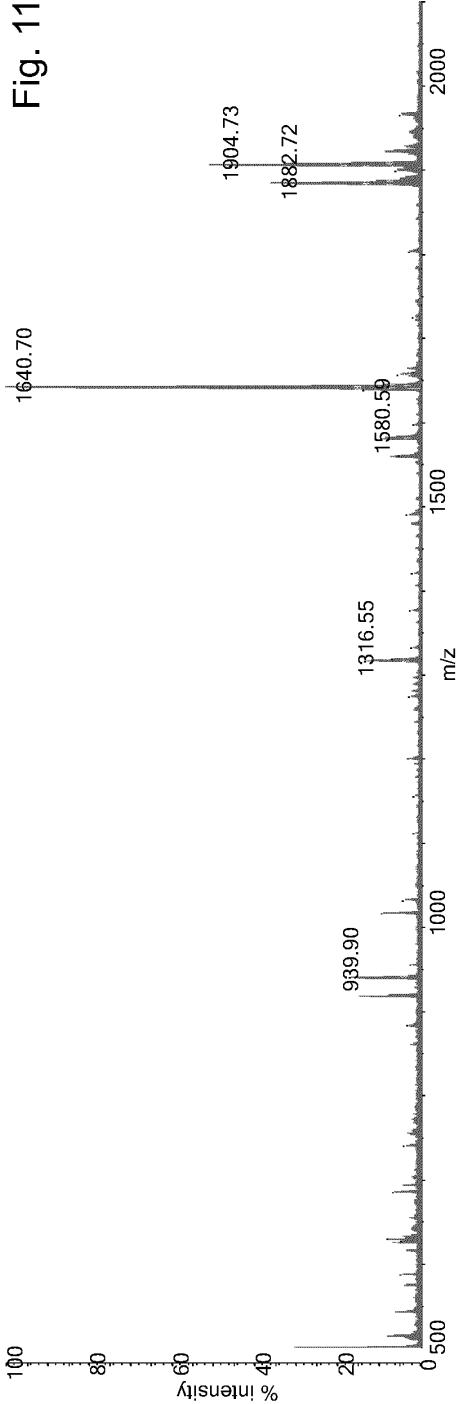


Fig. 12

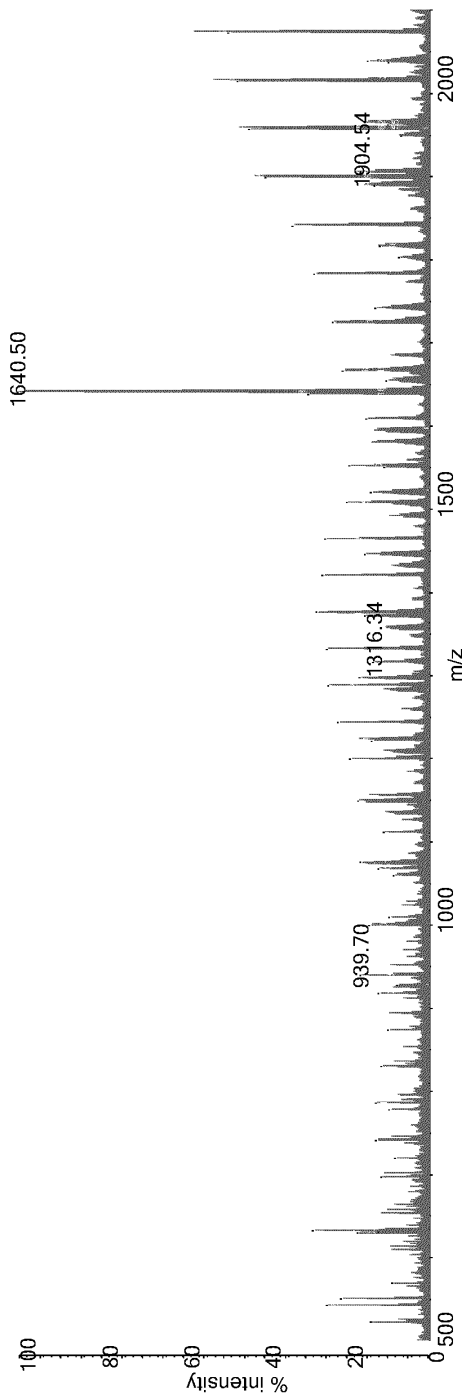


Fig. 13

