Table S1. The identification results for the candidate of potential biomarkers

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Table S2. The relative levels and t-test results of the potential biomarkers in rat sera of C-7, C-14, MI-7 and MI-14 groups.

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β-Sitosterol
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<th>C-14 (n=11)</th>
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<td>0.0917±0.0666</td>
<td>0.01 ± 0.04</td>
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<td>6</td>
<td>Succinate</td>
<td>16.96</td>
<td>0.0087±0.0018</td>
<td>0.0622±0.0099</td>
<td>0.0077±0.0013</td>
<td>0.0139±0.0049</td>
<td>2×10&lt;sup&gt;−5&lt;/sup&gt; ± 0.002</td>
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<tr>
<td>7</td>
<td>L-glyceral acid</td>
<td>17.25</td>
<td>0.0064±0.0023</td>
<td>0.0159±0.0061</td>
<td>0.0110±0.0021</td>
<td>0.0181±0.0035</td>
<td>0.005 ± 4×10&lt;sup&gt;−5&lt;/sup&gt;</td>
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<td>8</td>
<td>4-Deoxyerythrose</td>
<td>17.49</td>
<td>0.0091±0.0014</td>
<td>0.0107±0.0032</td>
<td>0.0079±0.0010</td>
<td>0.0126±0.0033</td>
<td>0.1 ± 0.0006</td>
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<td>9</td>
<td>2,4-Dihydroxy-</td>
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<td>0.0033±0.0007</td>
<td>0.0047±0.0012</td>
<td>0.0042±0.0008</td>
<td>0.0066±0.0013</td>
<td>0.02 ± 7×10&lt;sup&gt;−5&lt;/sup&gt;</td>
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<td>10</td>
<td>Aminomalonic acid</td>
<td>19.74</td>
<td>0.0150±0.0078</td>
<td>0.0185±0.0065</td>
<td>0.0112±0.0037</td>
<td>0.0158±0.0054</td>
<td>0.2 ± 0.2</td>
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<tr>
<td>11</td>
<td>Malate</td>
<td>20.04</td>
<td>0.0151±0.0042</td>
<td>0.0276±0.0056</td>
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<td>0.0198±0.0069</td>
<td>0.0008 ± 0.03</td>
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<tr>
<td>12</td>
<td>2,3,4-Trihydroxy-</td>
<td>20.28</td>
<td>0.0156±0.0021</td>
<td>0.0222±0.0054</td>
<td>0.0164±0.0038</td>
<td>0.0292±0.0035</td>
<td>0.02 ± 8×10&lt;sup&gt;−8&lt;/sup&gt;</td>
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<tr>
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<tr>
<td>13</td>
<td>5-Oxoproline</td>
<td>20.54</td>
<td>0.2623±0.1366</td>
<td>0.5353±0.1246</td>
<td>0.2715±0.0620</td>
<td>0.3719±0.0597</td>
<td>0.002 ± 0.0006</td>
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<tr>
<td>14</td>
<td>Phenylalanine</td>
<td>21.02</td>
<td>0.0081±0.0023</td>
<td>0.0121±0.0038</td>
<td>0.0145±0.0039</td>
<td>0.0308±0.0096</td>
<td>0.03 ± 0.0002</td>
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<tr>
<td>15</td>
<td>L-Proline</td>
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<td>0.0183±0.0095</td>
<td>0.0271±0.0093</td>
<td>0.0237±0.0175</td>
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<tr>
<td>16</td>
<td>Glycerol</td>
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<td>0.0186±0.0042</td>
<td>0.0145±0.0045</td>
<td>0.0170±0.0078</td>
<td>0.002 ± 0.2</td>
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<tr>
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<td>17</td>
<td>D-Glucitol</td>
<td>26.20</td>
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<td>0.0161±0.0009</td>
<td>0.0217±0.0036</td>
<td>0.0331±0.0063</td>
<td>8×10&lt;sup&gt;−9&lt;/sup&gt; ± 0.0001</td>
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<tr>
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<td>Palmitate</td>
<td>28.41</td>
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<td>0.0186±0.0057</td>
<td>0.0138±0.0036</td>
<td>0.0218±0.0105</td>
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<tr>
<td>19</td>
<td>Octadecanoate</td>
<td>32.15</td>
<td>0.0471±0.0152</td>
<td>0.0875±0.0098</td>
<td>0.0355±0.0079</td>
<td>0.0595±0.0145</td>
<td>0.0002 ± 0.0002</td>
</tr>
<tr>
<td>20</td>
<td>1-hexadecanoyl-</td>
<td>35.81</td>
<td>0.0167±0.0018</td>
<td>0.0215±0.0017</td>
<td>0.0024±0.0054</td>
<td>0.0421±0.0084</td>
<td>0.0005 ± 2×10&lt;sup&gt;−5&lt;/sup&gt;</td>
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<tr>
<td>21</td>
<td>1-Octadecanoyl</td>
<td>37.40</td>
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<td>0.0219±0.0031</td>
<td>0.0179±0.0040</td>
<td>0.0288±0.0068</td>
<td>0.02 ± 0.003</td>
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<tr>
<td>22</td>
<td>Vitamin E</td>
<td>40.50</td>
<td>0.0165±0.0060</td>
<td>0.0244±0.0070</td>
<td>0.0148±0.0048</td>
<td>0.0274±0.0059</td>
<td>0.03 ± 2×10&lt;sup&gt;−5&lt;/sup&gt;</td>
</tr>
<tr>
<td>23</td>
<td>Cholesterol</td>
<td>40.66</td>
<td>0.5191±0.1145</td>
<td>0.6741±0.1448</td>
<td>0.3785±0.0891</td>
<td>0.5912±0.0829</td>
<td>0.03 ± 9×10&lt;sup&gt;−6&lt;/sup&gt;</td>
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<tr>
<td>24</td>
<td>ß-Sitosterol</td>
<td>42.98</td>
<td>0.0122±0.0033</td>
<td>0.0365±0.0152</td>
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<td>0.0333±0.0069</td>
<td>0.005 ± 7×10&lt;sup&gt;−6&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

* The value is demonstrated as mean±SD. C-7, control group 1 for 7 days (the ligation suture was placed in the heart, but without ligation, followed by sampling in the 7th day); C-14, control group 2 for 14 days; MI-7, myocardial infarction group 1 ligated for 7 days; MI-14, myocardial infarction group 2 ligated for 14 days. “=” means that the metabolite levels have significant changes (p<0.05) between C-7 and C-14 groups, so it has no significance to compare their levels between MI-7 and MI-14 groups. “↑” and “↑↑” demonstrate that the metabolite levels have significant elevation (p<0.05) in MI-7 groups and MI-14 groups, comparing to C-7 and C-14, respectively.
Figure S1. Histological change in myocardium following LAD ligation (200×). Myocardial tissues from rats in C-7 group (a), MI-7 group (b), MI-14 group (c), and MI-7+ROE group (d) were processed and stained with HE. Compared to the normal heart tissue, inflammatory cell infiltration and contraction band necrosis (not shown) were the major features of the operated animals following LAD ligation.