<table>
<thead>
<tr>
<th>Peak (cm$^{-1}$)</th>
<th>Assignment</th>
<th>Literature References</th>
</tr>
</thead>
<tbody>
<tr>
<td>874</td>
<td>C$_4$N$^+$ and O-C-C-N symmetric stretch overlapped</td>
<td>42</td>
</tr>
<tr>
<td>952</td>
<td>O-C-C-N asymmetric stretch</td>
<td>43</td>
</tr>
<tr>
<td>1050</td>
<td>C-O stretch</td>
<td>40</td>
</tr>
<tr>
<td>1065</td>
<td>C-C stretch (Trans B1g)</td>
<td>35, 38-41</td>
</tr>
<tr>
<td>1083</td>
<td>C-C stretch (Gauche)</td>
<td>35, 38-41</td>
</tr>
<tr>
<td>1116</td>
<td>C-C stretch (Trans Ag)</td>
<td>35, 38-41</td>
</tr>
<tr>
<td>1263</td>
<td>O-P-O asymmetric stretch</td>
<td>41</td>
</tr>
<tr>
<td>1300</td>
<td>CH$_2$ twist</td>
<td>38, 40</td>
</tr>
<tr>
<td>1440</td>
<td>CH$_3$ bend</td>
<td>38, 40</td>
</tr>
<tr>
<td>1650</td>
<td>C=C stretch (for DOPC only)</td>
<td>39</td>
</tr>
<tr>
<td>1737</td>
<td>C=O stretch</td>
<td>42</td>
</tr>
<tr>
<td>2849</td>
<td>CH$_2$ symmetric stretch</td>
<td>32, 34, 36-38</td>
</tr>
<tr>
<td>2888</td>
<td>CH$_3$ symmetric stretch</td>
<td>32, 34, 36-38, 40</td>
</tr>
<tr>
<td>2923</td>
<td>CH$_3$ asymmetric stretch, F.R.CH$_2$ sym and CH$_2$ bend (2915)</td>
<td>31, 33, 34, 37, 38, 40</td>
</tr>
<tr>
<td>2960(w)</td>
<td>CH$_3$ asymmetric stretch</td>
<td>31, 33, 34, 37, 38, 40, 41</td>
</tr>
<tr>
<td>2973</td>
<td>Choline CH$_3$ symmetric stretch</td>
<td>37, 40, 61</td>
</tr>
<tr>
<td>3023</td>
<td>Choline CH$_3$ asymmetric stretch</td>
<td>40, 61</td>
</tr>
</tbody>
</table>