Trace of Deterioration with Time for Cherry Blossoms Fragrance with MonoTrap®

Protocol

Cherry Blossoms

A piece of cherry blossoms branch → A piece of cherry blossoms flower

Passive Sampling

MonoTrap® ; DCC18 5pcs 24 hours → MonoTrap® ; DCC18 5pcs @ 60℃, 24 hours (Aging)

Diethyl ether 1000uL, Ultrasonication 5 mins Enrich by N2 purge to a few uL

GC/MS

Aging

Ultra inert WAX column InertCap Pure-WAX is highly recommended to analyze aromatic compounds together with MonoTrap®

GC Condition

System: SHIMADZU GC-2010, GCMS-QP2010
Column: InertCap Pure-WAX (Cat.1010-68142) 0.25mm I.D. × 30m df=0.25μ m
Column Temp: 40℃ (5min) → 4℃/min→180℃→20℃/min→250℃ (5min)
Carrier Gas: He 120kPa
Injection: Split 1:10, 1uL
Detection: MS Scan (m/z;40~350)
Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

### MonoTrap® Convenient MonoTrap® Start-UP-KIT

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MT Holder</td>
<td>5</td>
</tr>
<tr>
<td>2 MT Stand</td>
<td>1</td>
</tr>
<tr>
<td>3 MT Extract Cup with Vial(20ml)</td>
<td>5</td>
</tr>
<tr>
<td>4 Clean Pin Hole Septum with vial(40ml)</td>
<td>5</td>
</tr>
<tr>
<td>5 200μL Glass Insert (Flat Bottom)</td>
<td>40</td>
</tr>
<tr>
<td>6 MonoTrap® DCC18</td>
<td>20</td>
</tr>
<tr>
<td>7 MonoTrap® RCC18</td>
<td>20</td>
</tr>
<tr>
<td>8 MonoTrap® DSC18</td>
<td>20</td>
</tr>
<tr>
<td>9 MonoTrap® RSC18</td>
<td>20</td>
</tr>
</tbody>
</table>

Red • • • Identification result of standards

1 Clorius
2 2,6-Dimethyl-3,7-octadiene-2,6-diol
3 p-Anisaldehyde
4 3,5-Dimethoxybenzaldehyde
5 8-Hydroxylnalool
6 Coumarine