Fotector Series
Automated Solid Phase Extraction System
The manual sample preparation process is cumbersome and time-consuming. Due to the unstable flow rate and the different conditions of the column, the accuracy and parallelism of the test results cannot be guaranteed, and also the organic reagents in operation are highly toxic and highly permeable, threatening the experimenter’s health. RayKol’s Fotector series SPE instruments are designed for fully automatic solid phase extraction application of large-scale sample preparation for testing in modern laboratory. With precise flow rate and repeat operation ensuring the accuracy and parallelism for the testing. The instrument is suitable enough to put into the fume hood to avoid exposing directly to Lab. Fotector series instruments can be applied for large-scale sample treatment in the inspection of pesticide and veterinary drug residues in food, harmful organic compounds in the environment, poisonous materials in blood and urine etc...

**Product Features**

The whole process of solid phase extraction is automated

**Target compound adsorption model**

**Impurity adsorption model**

Sample testing parallelism and repeatability is guaranteed

Remote monitoring, safe and healthy

How can we accurately control the flow rate to ensure parallelism?

Our unique designed patented plunger pole is closely attached to the SPE cartridge, no space gap, to make sure the flow rate through the cartridge is not affected by different conditions. High-precision syringe pump is fully sealed and mechanically moved for positive pressure sampling and elution.
Continuous processing of large batches of samples
· Multi-channels run simultaneously with the same method and condition.

The system operating efficiently and fast
· Synchronous running different Tube Racks independently
· Fast solvent switching through Multi-port valves

Stable and reliable, No cross contamination
· Multi-rail operation design, no cross-contamination caused by round-trip movement.
· The flow system and injection needle are made of special surface-inert materials, can customized set rinsing needle.

Graphical software interface, Remote wireless real-time monitoring
· The entire operating process can be monitoring and automatically generate monitoring logs, which can be recorded and checked.
· The system intelligently judges operating errors and the abnormal samples are handled separately and can be saved.

The system has various modules and a wide range of applications
· Special SPE cartridges are also compatible such as Immune affinity module, which could be applied various types of toxin detection.
· Quickly trail and assemble different loading modules, it can increase to more than 60 water samples continuous processing for environmental testing.
· Different kinds of SPE operating methods can be set for the various complicated sample.

Fotector Series

<table>
<thead>
<tr>
<th>Module</th>
<th>Channels</th>
<th>Sample Tube Rack</th>
<th>Collecting Rack</th>
<th>Cartridge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fotector-02HT</td>
<td>2</td>
<td>20ml<em>20Holes 60ml</em>12Holes</td>
<td>20ml<em>20Holes 60ml</em>12Holes</td>
<td>1/3/6/12/20ml</td>
</tr>
<tr>
<td>Fotector-04HT</td>
<td>4</td>
<td>20ml<em>40Holes 60ml</em>24Holes</td>
<td>20ml<em>40Holes 60ml</em>24Holes</td>
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<tr>
<td>Fotector Plus</td>
<td>6</td>
<td>20ml<em>60Holes 60ml</em>36Holes</td>
<td>20ml<em>60Holes 60ml</em>36Holes</td>
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<tr>
<td>Fotector-08HT</td>
<td>8</td>
<td>20ml<em>80Holes 60ml</em>48Holes</td>
<td>20ml<em>80Holes 60ml</em>48Holes</td>
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<tr>
<td>FS 360</td>
<td>6</td>
<td>15ml<em>36Holes 50ml</em>36Holes</td>
<td>15ml<em>36Holes 50ml</em>36Holes</td>
<td></td>
</tr>
</tbody>
</table>

More stable and strong injection pressure
Max pressure more than 0.8MPa

Shorter time
Switching by pump valve, no mechanical running time

Better sealing
“O”ring sealing avoid leakage