

## Quantification of Organophosphorus Pesticides by QuEChERS and LC/MS/MS

**Column:** Synergi™ 4 µm Fusion-RP 80 Å, LC Column 50 x 2 mm, Ea

**Dimensions:** 50 x 2 mm ID

**Order No:** 00B-4424-B0

**Elution Type:** Gradient

**Eluent A:** Add 5mL of 1M ammonium formate to 1L Water

**Eluent B:** Add 5mL of 1M ammonium formate to 1L Methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	-5	95	5
	2	0	95	5
	3	2	95	5
	4	6	50	50
	5	12	10	90
	6	14	10	90
	7	16	95	5
	8	17	95	5



**Flow Rate:** 250 mL/min

**Col. Temp.:** 25 °C

**Detection:** Tandem Mass Spec (MS-MS) @ (ambient)

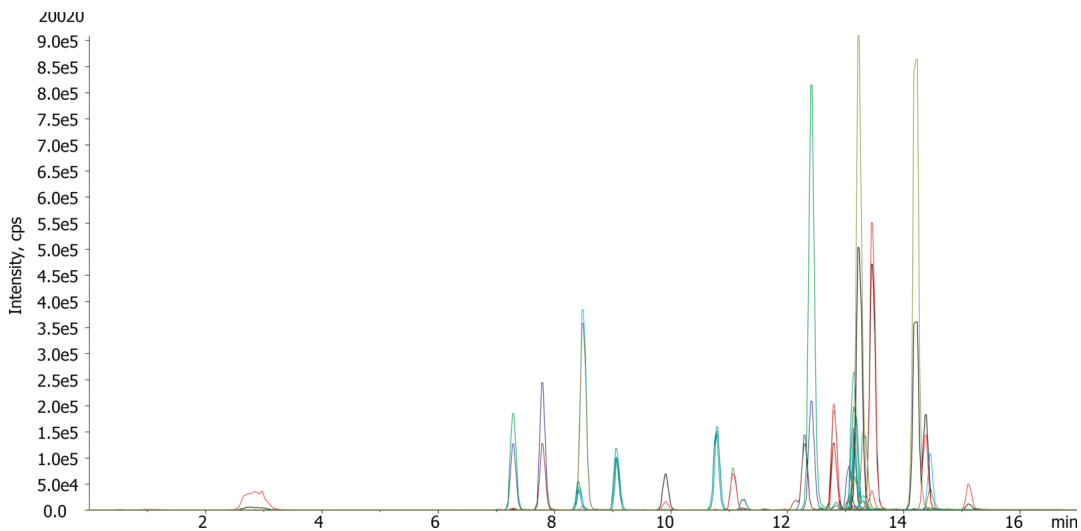
**Detector Info:** <a target="\_blank"

href="https://sciex.com/products/mass-spectrometers?utm\_campaign=2019%20application%20search&utm\_source=phenomenex&utm\_medium=referral">SCIEX </a>  
SecurityGuard™ Guard Cartridge System extends column lifetime.

**Analyst Note:**

- SecurityGuard Cartridges, Fusion-RP 4 x 2.0mm ID, 10/Pk Part No.: AJ0-7556

- Holder Part No.: KJ0-4282



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### ANALYTES:

<b>1</b> Acephate	<b>41</b> Diazinon
<b>2</b> Acephate	<b>42</b> Diazinon
<b>3</b> Demeton-S-methyl sulfone	<b>43</b> Fenthion
<b>4</b> Demeton-S-methyl sulfone	<b>44</b> Fenthion
<b>5</b> Parathion-methyl	<b>45</b> Coumaphos
<b>6</b> Parathion-methyl	<b>46</b> Coumaphos
<b>7</b> Dicrotophos	<b>47</b> Phorate
<b>8</b> Dicrotophos	<b>48</b> Phorate
<b>9</b> Demeton-S-methyl	<b>49</b> Pirimiphos-methyl
<b>10</b> Demeton-S-methyl	<b>50</b> Pirimiphos-methyl
<b>11</b> Dimethoate	<b>51</b> Pirimiphos-ethyl
<b>12</b> Dimethoate	<b>52</b> Pirimiphos-ethyl
<b>13</b> Mevinphos	<b>53</b> Sulprofos
<b>14</b> Mevinphos	<b>54</b> Sulprofos
<b>15</b> Dichlorvos	<b>55</b> Chlorpyrifos
<b>16</b> Dichlorvos	<b>56</b> Chlorpyrifos
<b>17</b> Phorate sulfoxide	<b>57</b> Tokuthion
<b>18</b> Phorate sulfoxide	<b>58</b> Tokuthion
<b>19</b> Famphur	
<b>20</b> Famphur	
<b>21</b> Naled	
<b>22</b> Naled	
<b>23</b> Azinphos-methyl	
<b>24</b> Azinphos-methyl	
<b>25</b> Malathion	
<b>26</b> Malathion	
<b>27</b> Triazophos	
<b>28</b> Triazophos	
<b>29</b> Azinphos-ethyl	
<b>30</b> Azinphos-ethyl	
<b>31</b> Tetrachlorvinphos	
<b>32</b> Tetrachlorvinphos	
<b>33</b> EPTC	
<b>34</b> EPTC	
<b>35</b> Chlorfenvinphos	
<b>36</b> Chlorfenvinphos	
<b>37</b> Parathion	
<b>38</b> Parathion	
<b>39</b> Sulfotep	
<b>40</b> Sulfotep	

