

## Quantification of Carbamate 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:** Water with 5mM ammonium formate

**Eluent B:** Methanol with 5mM ammonium formate

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | -5         | 80    | 20    |
|                   | 2        | 0          | 80    | 20    |
|                   | 3        | 8          | 10    | 90    |
|                   | 4        | 14         | 10    | 90    |
|                   | 5        | 15         | 80    | 20    |

**Flow Rate:** 250 µL/min

**Col. Temp.:** 25 °C

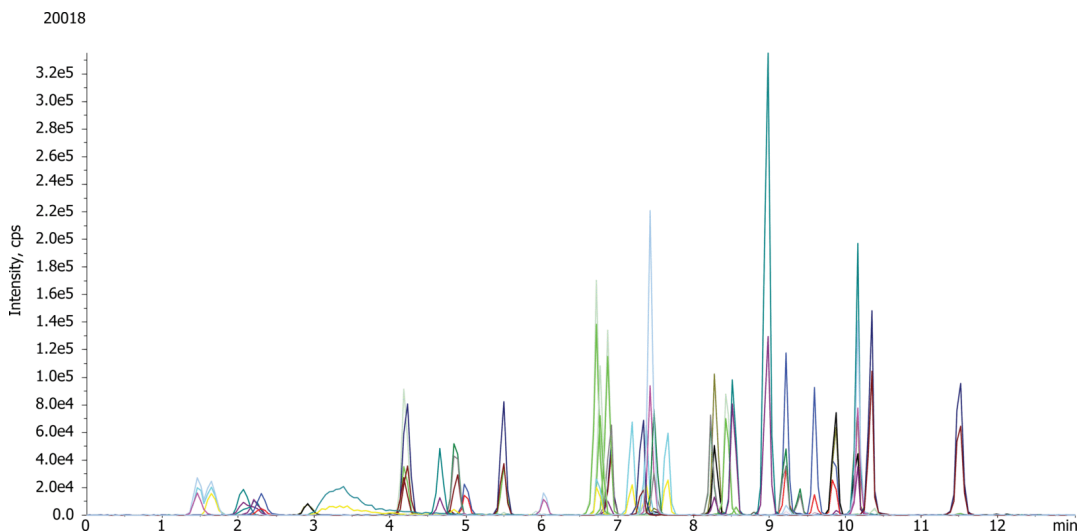
**Detection:** Tandem Mass Spec (MS-MS) @ (25 °C)

**Detector Info:** API 3200 or 3200 QTRAP

**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- 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> Butocarboxim-sulfoxide                    | <b>41</b> Terbutcarb   |
| <b>2</b> Aldicarb-sulfoxide                        | <b>42</b> Benfuracarb  |
| <b>3</b> Butoxycarboxim                            | <b>43</b> Esprocarb    |
| <b>4</b> Aldicarb-sulfone                          | <b>44</b> Furathiocarb |
| <b>5</b> Oxamyl                                    | <b>45</b> Pyributicarb |
| <b>6</b> Methomyl                                  | <b>46</b> Triallate    |
| <b>7</b> Propamocarb                               | <b>47</b> Carbosulfan  |
| <b>8</b> Ethiofencarb-sulfone                      |                        |
| <b>9</b> Ethiofencarb-sulfoxide                    |                        |
| <b>10</b> Thiofanox-sulfone                        |                        |
| <b>11</b> Dioxacarb                                |                        |
| <b>12</b> 3-Hydroxycarbofuran                      |                        |
| <b>13</b> Methocarb-sulfone                        |                        |
| <b>14</b> Butocarboxim                             |                        |
| <b>15</b> Aldicarb                                 |                        |
| <b>16</b> Aminocarb                                |                        |
| <b>17</b> Thiram                                   |                        |
| <b>18</b> Propoxur                                 |                        |
| <b>19</b> Bendiocarb                               |                        |
| <b>20</b> Carbofuran                               |                        |
| <b>21</b> Carbaryl                                 |                        |
| <b>22</b> XMC                                      |                        |
| <b>23</b> Ethiofencarb                             |                        |
| <b>24</b> Primicarb                                |                        |
| <b>25</b> Thiodicarb                               |                        |
| <b>26</b> Thiofanox                                |                        |
| <b>27</b> Isoprocarb                               |                        |
| <b>28</b> Phenmedipham                             |                        |
| <b>29</b> Fenobucarb                               |                        |
| <b>30</b> Methiocarb                               |                        |
| <b>31</b> Promecarb                                |                        |
| <b>32</b> Chloroprotham                            |                        |
| <b>33</b> Iprovalicarb                             |                        |
| <b>34</b> EPTC (S-Ethyl N,N-dipropylthiocarbamate) |                        |
| <b>35</b> Fenothiocarb                             |                        |
| <b>36</b> Fenoxycarb                               |                        |
| <b>37</b> Alanycarb                                |                        |
| <b>38</b> Benomyl                                  |                        |
| <b>39</b> Thiobencarb                              |                        |
| <b>40</b> Dimepiperate                             |                        |

