# 2018-19 ICIA CORN TRAIT TESTING MATRIX

## COMMERCIAL NAME | TRAIT TEST REQUEST CODES | EVENTS
--- | --- | ---
**MONSANTO TRAITS**
Roundup Ready | RR | NK603
Roundup Ready/LibertyLink | RR, LL | NK603xT25
VT Double PRO | RR, TP2AB2 | MON89034xNK603
DroughtGard VT Double PRO | RR, TP2AB2, DGARD | MON89034xMON87460xNK603
VT Triple PRO | RR, TP2AB2, TPRW | MON89034xMON88017xNK603
DroughtGard VT Triple PRO | RR, TP2AB2, TPRW, DGARD | MON89034xMON88017xMON87460xNK603
Trecepta | RR, TP2AB2, VIP3A | MON89034xMIR162xNK603
SmartStax | RR, LL, HXCB, HXRW, TP2AB2, TPRW | TC1507x59122xMON89034xMON88017xNK603
AMGEN TRAITS
Agrisure GT | RR | GA21
Agrisure 3010 (GT/CB/LL) | RR, LL* | Bt11xGA21
Agrisure 3000GT/Artesian 3011A | RR, LL*, AGRW | Bt11xMIR604xGA21
Agrisure Viperta 3110 | RR, LL*, VIP3A | Bt11xMIR162xGA21
Agrisure Viperta 3111 | RR, LL*, AGRW, VIP3A | Bt11xMIR162xMIR604xGA21
Agrisure Viperta 3220 | RR, LL*, HXCB, VIP3A | Bt11xMIR162xTC1507xGA21
Agrisure 3120 | RR, LL*, HXCB | Bt11xTC1507xGA21
Agrisure 3122 | RR, LL*, HXCB, AGRW, HXRW | Bt11xTC1507xMIR604x59122xGA21
Agrisure Duracade 5122 | RR, LL*, HXCB, AGRW, DURA | Bt11xTC1507xMIR604x5307xGA21
Agrisure Duracade 5222 | RR, LL*, HXCB, AGRW, VIP3A, DURA | Bt11xTC1507xMIR604xMIR162x5307xGA21
**SYNGENTA TRAITS**
Agrisure GT | RR | GA21
Agrisure 3010 (GT/CB/LL) | RR, LL* | Bt11xGA21
Agrisure 3000GT/Artesian 3011A | RR, LL*, AGRW | Bt11xMIR604xGA21
Agrisure Viperta 3110 | RR, LL*, VIP3A | Bt11xMIR162xGA21
Agrisure Viperta 3111 | RR, LL*, AGRW, VIP3A | Bt11xMIR162xMIR604xGA21
Agrisure Viperta 3220 | RR, LL*, HXCB, VIP3A | Bt11xMIR162xTC1507xGA21
Agrisure 3120 | RR, LL*, HXCB | Bt11xTC1507xGA21
Agrisure 3122 | RR, LL*, HXCB, AGRW, HXRW | Bt11xTC1507xMIR604x59122xGA21
Agrisure Duracade 5122 | RR, LL*, HXCB, AGRW, DURA | Bt11xTC1507xMIR604x5307xGA21
Agrisure Duracade 5222 | RR, LL*, HXCB, AGRW, VIP3A, DURA | Bt11xTC1507xMIR604xMIR162x5307xGA21
**CORTEVA TRAITS**
Enlist | ENLIST | DAS40278
Herculex I | LL, HXCB | TC1507
Herculex I/RR2 | RR, LL, HXCB | TC1507xNK603
Herculex RW/RR2 | RR, LL, HXRW | 59122xNK603
Herculex Xtra | LL, HXCB, HXRW | TC1507x59122
Herculex Xtra/RR2 | RR, LL, HXCB, HXRW | TC1507x59122xNK603
PowerCore Enlist | ENLIST, RR, LL, HXCB, TP2AB2 | TC1507xNK603xDAS40278xMON89034
**BASF TRAITS**
LibertyLink | LL | T25

---

**Please send a minimum of 2 lbs of seed per sample**

### TEST DECODER

<table>
<thead>
<tr>
<th>TEST CODE</th>
<th>EVENT</th>
<th>GENE/PROTEIN</th>
<th>Bulk Lots or Finshed w/no Bulk test</th>
<th>Max Allowed Negative Seeds</th>
<th>Finished Lots Passing Bulk</th>
<th>Max Allowed Negative Seeds</th>
<th>Min Trait Confirmation %</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR</td>
<td>NK603</td>
<td>cp4</td>
<td>400</td>
<td>*</td>
<td>400</td>
<td>*</td>
<td>98%</td>
</tr>
<tr>
<td>RR</td>
<td>GA21</td>
<td>mepsps</td>
<td>400</td>
<td>*</td>
<td>400</td>
<td>*</td>
<td>96%-98%**</td>
</tr>
<tr>
<td>ENLIST</td>
<td>DAS40278</td>
<td>aad-1</td>
<td>400</td>
<td>*</td>
<td>400</td>
<td>*</td>
<td>98%</td>
</tr>
<tr>
<td>LL</td>
<td>T25</td>
<td>pat</td>
<td>400</td>
<td>*</td>
<td>400</td>
<td>*</td>
<td>96%</td>
</tr>
<tr>
<td>AGCB</td>
<td>Bt11</td>
<td>cry1Ab,pat</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>HKCB</td>
<td>TC1507</td>
<td>cry1F,pat</td>
<td>90</td>
<td>3</td>
<td>N/A</td>
<td>N/A</td>
<td>96.5%</td>
</tr>
<tr>
<td>AGRW</td>
<td>MIR604</td>
<td>mory3A</td>
<td>90</td>
<td>3</td>
<td>30</td>
<td>1</td>
<td>96.5%</td>
</tr>
<tr>
<td>TPRW</td>
<td>MON88017</td>
<td>cry488-1</td>
<td>90</td>
<td>3</td>
<td>30</td>
<td>1</td>
<td>96.5%</td>
</tr>
<tr>
<td>HXRW (LGAS)</td>
<td>59122</td>
<td>cry3Ab1, cry3Ab2</td>
<td>90</td>
<td>3</td>
<td>N/A</td>
<td>N/A</td>
<td>96.5%</td>
</tr>
<tr>
<td>TP2AB2</td>
<td>MON89034</td>
<td>cry2Ab2, cry1A.105</td>
<td>90</td>
<td>3</td>
<td>30</td>
<td>1</td>
<td>96.5%</td>
</tr>
<tr>
<td>DURAD</td>
<td>MON87460</td>
<td>cspB</td>
<td>90</td>
<td>3</td>
<td>30</td>
<td>1</td>
<td>96.5%</td>
</tr>
<tr>
<td>DURA</td>
<td>5307</td>
<td>cry3.1Ab</td>
<td>90</td>
<td>3</td>
<td>30</td>
<td>1</td>
<td>96.5%</td>
</tr>
<tr>
<td>VIP3A</td>
<td>MIR162</td>
<td>vip3Aa20</td>
<td>90</td>
<td>3</td>
<td>30</td>
<td>1</td>
<td>96.5%</td>
</tr>
</tbody>
</table>

**Maximum number of allowed negative seeds is determined by the total number of seeds that germinated normally out of 400 seeds planted.**

**RR (GA21) - Agrisure GT Male donated trait min = 96%; Female donated trait = 98%**

**30 seed test failure should be followed with an additional 90 seed(plant) progressive test. At 120 seeds(plants) ≤ 4 negatives would achieve a passing result.**

Bulk testing generally compliments but does not replace finished lot testing unless otherwise indicated. Finished lot testing at the reduced sample size is acceptable only with a passing bulk lot score.

---

**LL* - Agrisure CB/LL with 2 seed AGCB confirmation, the report will only show the Liberty result. Please indicate “Agrisure product” in Special Instructions on sample bag or label.**

---

August 2018 v 3.2