

## Explanation of Report: GM Corn Real-Time Quantitative [RTQ] PCR Analysis

#	Report Element	Explanation
1	PCR Analysis Report	Name of the official analysis report document.
2	Laboratory analysis performed for	FoodChain ID Testing customer: account name and address.
3	GID Sample Code	Lab code for a specific test record, for a specific sample.
4	Order Number	FoodChain ID Testing order number. An order may contain results for more than one sample.
5	Gross Weight	Weight of sample received by the lab.
6	Sample Type	Brief, generic description of the sample type. For example, "Corn Flour".
7	Customer Sample ID	Customer-specific description of the sample. This can include information such as product name, lot number, manufacture date, etc.
8	GM Corn Real-Time Quantitative [RTQ] PCR Analysis	This test package is designed to provide Quantitative GMO analysis for GM Corn. Testing is conducted by the Real-Time PCR (polymerase chain reaction) method, which analyzes DNA.
9	Limit of Detection of the Method	The limit of detection of the PCR method is 0.01%. (1 in 10,000)
10	Limit of Quantification of the Method	The limit of quantification is 0.05%. This is the lowest level at which a GMO result can be quantified.
11	Corn/Maize DNA Reference	This test is designed to detect Corn/Maize species DNA. <i>Note: The DNA Reference is a <u>species</u> test; it is not a GMO test.</i>
12	Test result for Corn/Maize DNA Reference	This test indicates whether or not Corn/Maize species DNA is detected in the sample. There are three possible test result options: <ul style="list-style-type: none"> <li>• <b>Corn/Maize DNA detected at a normal level</b></li> <li>• <b>Corn/Maize DNA detected at a reduced level</b></li> <li>• <b>Corn/Maize DNA not detected</b></li> </ul>
13	GMO test: <ul style="list-style-type: none"> <li>• CaMV 35S Promoter [RTQ]</li> </ul>	This test can detect a number of GM corn events, as well as various GMO events for several other crop species.
14	GMO tests: <ul style="list-style-type: none"> <li>• Corn Syngenta GA21 [RTQ]</li> <li>• Corn Syngenta MIR604 (Agrisure RW) [RTQ]</li> <li>• Corn Syngenta MIR162 (Agrisure Viptera) [RTQ]</li> </ul>	Each of these tests is designed to detect GM corn.

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15	Test results for GMO tests	<p>The Corn/Maize DNA Reference result determines whether or not it is possible to issue Quantitative GMO results relative to this species.</p> <p><b><i>If Corn/Maize DNA is detected at a normal level</i></b></p> <ul style="list-style-type: none"> <li>• This means that Corn/Maize species DNA <u>is</u> sufficiently intact to conduct Quantitative GMO analysis relative to this species.</li> <li>• The reported GMO results are expressed as <b>% GMO</b>. The % GMO value is calculated relative to total Corn/Maize species DNA.</li> <li>• <i>See example report: GM Corn RTQ (Corn DNA normal level)</i></li> </ul> <p><b><i>If Corn/Maize DNA is detected at a reduced level</i></b></p> <ul style="list-style-type: none"> <li>• This means that Corn/Maize species DNA is <u>not</u> sufficiently intact to conduct Quantitative GMO analysis relative to this species.</li> <li>• Therefore, the reported GMO results may be either of the following:           <ul style="list-style-type: none"> <li>○ <b>Detected. Not quantifiable.</b></li> <li>○ <b>Not Detected. Not quantifiable.</b></li> </ul> </li> <li>• <i>See example report: GM Corn RTQ (Corn DNA reduced level)</i></li> </ul> <p><b><i>If Corn/Maize DNA is not detected</i></b></p> <ul style="list-style-type: none"> <li>• This means that Quantitative GMO analysis relative to Corn/Maize species DNA cannot be calculated.</li> <li>• Therefore, the reported GMO results may be either of the following:           <ul style="list-style-type: none"> <li>○ <b>Detected. Not quantifiable.</b></li> <li>○ <b>Not Detected. Not quantifiable.</b></li> </ul> </li> <li>• <i>See example report: GM Corn RTQ (Corn DNA not detected)</i></li> </ul> <p><i>Note: A “Not quantifiable” result is <u>not</u> a negative GMO result, nor is it a statement that the result is below the limit of quantification.</i></p>
16	Total % GMO	<p>The Total % GMO, if provided, is the sum of the reported quantitative GMO results.</p> <p><i>Note: If all of the individual GMO test results are “&lt; 0.05% GMO”, a value for Total % GMO does not appear on the report.</i></p>
17	SD*	Standard Deviation, per GMO test component
18	Accreditation seal	<p>FoodChain ID Testing is accredited to ISO 17025 by The American Association for Laboratory Accreditation (A2LA).</p> <p>The presence of the accreditation seal on the report indicates that the specific test(s) conducted fall within FoodChain ID Testing’s scope of accreditation.</p>
19	Signature	Test results are authorized by the individual whose signature appears on the report.