

# Technical Datasheet

<b>Analysis Name:</b>	TC1507 GM-Maize Quantification by RTi-PCR
<b>Method Number</b>	LI-00.397
<b>Scope of Application:</b>	DNA extracted from raw materials, derivatives (e.g. flour, semolina, grits) & finished products.
<b>Description:</b>	<p>A multiplex real-time PCR system was developed to amplify respectively both the endogenous zein gene (specific for maize) and the construct-specific target for TC1507 GM-maize event in such a way that both amplifications are carried out in the same reaction without any interference (multiplex PCR). For this purpose, two fluorescent probes, respectively specific for TC1507 GM-maize and zein gene are used in the same assay, in addition to the forward and reverse PCR primers. TC1507 and Zein specific probes are FAM and VIC labelled, respectively.</p> <p>Two standard curves, relative to TC1507 and to Zein portion, are established based on PCR amplifications of known amounts of TC1507 GM-maize DNA extracted from certified powder reference material. Both standard curves are necessary since the GM-maize content in unknown samples must be quantified in the maize portion.</p>
<b>Sample Weight Required:</b>	DNA extracted from LI-00.385
<b>Analytical Platform:</b>	Real-Time PCR

Analyte Reported	Unit of Measure	Limit of Quantification (LOQ)
Milho GM (milho) TC1507	% (m/m)	0.05