

Technical Datasheet

Analysis Name: GM-Maize Quantification by RTi-PCR

Method Number: LI-00.405

Scope of Application: DNA extracted from raw materials, derivatives (e.g. flour, semolina, grits) & finished products

Description: A PCR system was developed to amplify respectively both the endogenous *zein* gene (specific for maize) and the construct-specific targets for each GM-maize events 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 the GM-maize event and the *zein* gene are used in the same assay, in addition to the forward and reverse PCR primers. The probes for the GM-events and the *zein* are FAM and VIC labeled, respectively.

Sample Weight Required: 50 grams

Analytical Platform: Real-Time PCR

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Bt11	N/A	%, (m/m)	0.05	35%
Bt176	N/A	%, (m/m)	0.04	35%
MON810	N/A	%, (m/m)	0.02	35%
MON863	N/A	%, (m/m)	0.07	35%
GA21	N/A	%, (m/m)	0.05	35%
NK603	N/A	%, (m/m)	0.05	35%
T25	N/A	%, (m/m)	0.07	35%
DAS59122	N/A	%, (m/m)	0.07	35%
MIR604	N/A	%, (m/m)	0.05	35%
MON88017	N/A	%, (m/m)	0.05	35%
MON89034	N/A	%, (m/m)	0.05	35%
DP-98140	N/A	%, (m/m)	0.05	35%