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Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: GMO Screening by Fast Real-Time PCR

Method Number: LI-00.047

Scope of Application: The method is applicable to all DNA extracted with LI-00.385 from raw materials and derivatives (such as flour, semolina, grits ...) or finished products (including pet food).

Description: DNA that has been extracted in duplicate using LI-00.385 is analyzed for GMO presence using Fast RTi PCR chemistry and Fast block. Method includes a total 24 primers and 12 probes either from European GMO official methods or Cottenet et al. 2013. The analytes represent 6 most common GM-markers and 6 gm-events that do not have these markers that cover $\geq 95\%$ of plant GMO's currently being cultivated.

Sample Weight Required: DNA extracted from LI-00.385

Analytical Platform: Real-Time PCR

Special Information: Results delivered by this method are expressed as Detected/Not Detected based on a limit of detection of $\leq 0.08\%$ (*m/m*), or ≤ 18 DNA copies.

The screen cannot determine individual results for each analyte. Reported result for Detection of GMO is based on detection of one or any combination of the 12 analytes listed below.



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Analyte	Type	Limit of Detection (LOD _{REL})	Unit of Measure
p-35S	GM-marker	0.005	%
p-FMV	GM-marker	0.005	%
t-NOS	GM-marker	0.01	%
t-E9	GM-marker	0.02	%
Pat	GM-marker	0.005	%
Cry1Ab/c	GM-marker	0.01	%
DAS-40278-9	GM-maize	0.08	%
VCO-1981-5	GM-maize	0.05	%
DP-305423	GM-soya	0.005	%
CV127	GM-soya	0.005	%
73496	GM-rapeseed	0.01	%
GHB614	GM-cotton	0.02	%