



## 2.2. Performance

	QL-EVE-DC-004 *	QL-TAX-DC-001
<b>LOD absolute</b>	<= 50 HE	
<b>LOD relative</b>	not reported	
<b>False positive rate</b>	0	
<b>False negative rate</b>	0	

\* The robustness tests indicated that the proposed detection method tolerates changes in the brand of the Taq DNA polymerase and related reaction buffer.

### Collaborative trial (QL-EVE-DC-004)

Unit of measurement: Target copy N.

	0	0.1	10	50
<b>Specificity</b>	100%			
<b>Sensitivity</b>		0%	70%	100%

## 2.2. Experimental details

### QL-TAX-DC-001 / QL-EVE-DC-004

<b>Detection chemistry</b>	Agarose gel electrophoresis
<b>Confirmation of amplification</b>	Restriction digestion with EcoRV (105 bp+386 bp)
<b>CRM</b>	Genomic DNA samples extracted from leaf tissue of non-GM and GM carnation event 26407

## 2.3. Method stages

### QL-TAX-DC-001 / QL-EVE-DC-004

Stage	Cycles	Time	Temperature	Ramp rate
Activation/Initial Denaturation	1	900"	95°C	
Denaturation		30"	95°C	
Annealing		30"	55°C	
Extension		60"	72°C	
Denaturation, Annealing and Extension	30			
Final Extension	1	300"	72°C	

## 2.4. Method reagents

### QL-TAX-DC-001 / QL-EVE-DC-004

Reagent	Final concentration
DNA Polymerase buffer 10x (Qiagen)	1x
dNTPs (dATP, dCTP, dGTP, dTTP)	200 umol/L each
Primer RB forward	4.0 ng/uL
Primer IFD-26407-2 reverse	4.0 ng/uL
Primer ANS.F	4.0 ng/uL
Primer ANS.R	4.0 ng/uL
Template DNA	100 ng
HotStar Taq DNA Polymerase (Qiagen)	2.5 U
Nuclease-free water	#
Final volume	25 uL

### 3. References

European Union Reference Laboratory for GM Food and Feed (EURL GMFF), Joint Research Centre (JRC), European Commission. Report on the Single-laboratory Validation of a PCR-based Detection Method for Identification of Florigene<sup>TM</sup> 26407 GM Carnation - Validation Report and Validated Method. Luxembourg (Luxembourg): Publications Office of the European Union. JRC85668. 2013. | 10.2788/34771 | 2013