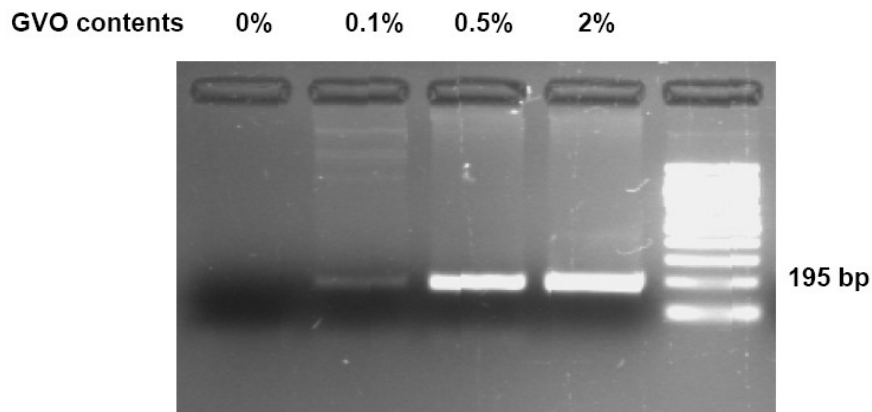


HotStart Polymerase

Product Description

Catalog #: Q6563A, 100 U
Q6563B, 500 U
Name: HotStart Polymerase
Storage: -20°C

**Significant more sensitive assay of genetic mutated organisms (GVO)
compared with the legal acceptance criteria
using Hot Start Polymerase**



- Highly sensitive detection of GVO
- Detection for below legal criteria of 0.9% possible

Directions for use

Protocol

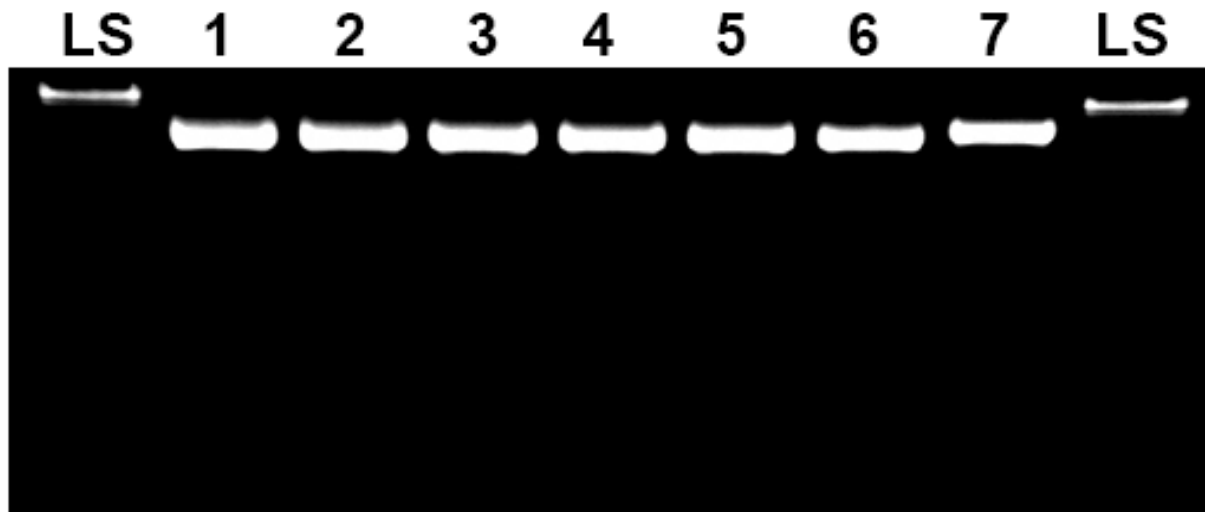
Hot Start Polymerase			
0% GVO	0.1% GVO (maize)	0.5% GVO (Soja)	2% GVO (Soja)
2,5 µl 10x Reaction buffer with 15 mM MgCl ₂	2,5 µl 10x Reaction buffer with 15 mM MgCl ₂	2,5 µl 10x Reaction buffer with 15 mM MgCl ₂	2,5 µl 10x Reaction buffer with 15 mM MgCl ₂
1 µl dNTP Mix (5 mM)	1 µl dNTP Mix (5 mM)	1 µl dNTP Mix (5 mM)	1 µl dNTP Mix (5 mM)
1 µl Primer Mix 1:10	1 µl Primer Mix 1:10	1 µl Primer Mix 1:10	1 µl Primer Mix 1:10
-- DNA	2,5 µl DNA (0.1%)	2,5 µl DNA (0.5%)	2,5 µl DNA (2%)
1 µl Hot Start Pol 1:10	1 µl Hot Start Pol 1:10	1 µl Hot Start Pol 1:10	1 µl Hot Start Pol 1:10
18,35 µl H ₂ O	15,85 H ₂ O	15,85 µl H ₂ O	15,85 µl H ₂ O
1,25 µl DMSO	1,25 µl DMSO	1,25 µl DMSO	1,25 µl DMSO
25 ml PCR	25 ml PCR	25 ml PCR	25 ml PCR

Touch down Protocol:

1	95°C	180 sec	Denaturation	
2.1	95°C	20 sec	Denaturation	} 5x
2.2	59°C	40 sec	Annealing	
2.3	72°C	40 sec	Elongation	
3.1	95°C	20 sec	Denaturation	} 28x
3.2	54°C	40 sec	Annealing	
3.3	72°C	40 sec	Elongation	
4.	72°C	180 sec	Final Elongation	

Excellent amplification performance of Hot Start Polymerase at high dilutions

PCR Method: 35 cycles	
concentrations:	
lambda DNA	0.1 ng/μl
4 kb – Primers 10 pmol/μl	2 ng/μl each
dNTP(100.290+100.313+100.393+100.383)	0.2 mM each
MgCl ₂ (25 mM)	1.5 mM
HS DNA Pol. (units/μl) 241023	0,01; 0,009; 0,008; 0,007; 0,006; 0,005; 0,004
Reaction volume	100 μl
Agarose-Gel	2%



Lanes:

1-7: decreasing Taq-concentrations (1: 0,04 U/μl -> 7: 0,004 U/μl)

LS: Length-standard

PCR Conditions

4°C 2 mn 1
 94°C 10 sec 35
 52°C 20 sec 35
 72°C 2 mn 35
 4°C

Contact your local distributor

uptima@interchim.com

FT-Q6563A

Related products

- dNTP set 1, 100 mM, 4 x 25 μ mol, [UP968640](#)
- UptiTherm DNA Polymerase, [UPS53921](#)
- EvaGreen dsDNA reagent, [BI1790](#)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic use. Uptima is not liable for any damage resulting from handling or contact with this product.

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