

List of GMO detection related products

ver. 28

References

1. Food and Agricultural Materials Inspection Center: Japanese Agricultural Standard (JAS) analytical test handbook
2. Consumer Affairs Agency, Government of Japan: Labeling Guide
3. Ministry of Health, Labour and Welfare of Japan: Testing for Food Produced by Recombinant DNA Techniques

INDEX

GMO specific sequences	p. 1
Soybean	p. 2
Maize	p. 3
Potato	p. 6
Papaya	p. 8
Rice	p. 9
Rapa	p. 9
Salmon	p. 10
Others	p. 10

GMO specific sequences

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
318-06031	GMO Detection No Template Control-ColE1/TE-	ColE1/TE	5 ng/μl	90 μl x 2	9,000

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
313-05621	GMO Detection P35S Oligonucleotide Set	P35S 1-5' & 3' P35S-Taq	25 μM each 10 μM	180 μl 90 μl	1Set 30,000
310-05631	GMO Detection NOS Oligonucleotide Set	NOS ter 2-5' & NOS ter 2-3' NOS-Taq	25 μM each 10 μM	180 μl 180 μl	1Set 36,000
310-08551	GMO Detection NOS Oligonucleotide Set 2	NOS ter 3-5' & NOS ter 2-3' NOS-Taq	25 μM each 10 μM	180 μl 180 μl	1Set 36,000

Primers

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
317-05521	GMO Detection P35S-1 Oligonucleotide	P35S 1-5' & P35S 1-3'	25 μM each	60 μl	14,000
313-05523				180 μl	22,800
314-05531	GMO Detection NOS ter-2 Oligonucleotide	NOS ter 2-5' & NOS ter 2-3'	25 μM each	60 μl	14,000
310-05533				180 μl	22,800

Soybean

Standard Plasmid for quantitative analysis

Code No.	Product Name	Component	Concentration	Volume	(Size)	Price (JPY)
316-05971	GM Soybean(RRS) Detection Plasmid Set-CoIE1/TE-	CoIE1/TE	5 ng/μl	90 μl x 2	1Set	37,000
		Soy-CoIE1/TE- 20	20copies/2.5 μl	90 μl x 2		
		Soy-CoIE1/TE- 125	125copies/2.5 μl	90 μl x 2		
		Soy-CoIE1/TE- 1.5k	1,500copies/2.5 μl	90 μl x 2		
		Soy-CoIE1/TE- 20k	20,000copies/2.5 μl	90 μl x 2		
		Soy-CoIE1/TE- 250k	250,000copies/2.5 μl	90 μl x 2		
315-07381	GM Soybean(LLS) Detection Plasmid Set-CoIE1/TE-	CoIE1/TE	5 ng/μl	90 μl x 2	1Set	37,000
		LLS-CoIE1/TE- 20	20copies/2.5 μl	90 μl x 2		
		LLS-CoIE1/TE- 125	125copies/2.5 μl	90 μl x 2		
		LLS-CoIE1/TE- 1.5k	1,500copies/2.5 μl	90 μl x 2		
		LLS-CoIE1/TE- 20k	20,000copies/2.5 μl	90 μl x 2		
		LLS-CoIE1/TE- 250k	250,000copies/2.5 μl	90 μl x 2		
*1 316-07671	GM Soybean(RR2) Detection Plasmid Set-CoIE1/TE-	CoIE1/TE	5 ng/μl	90 μl x 2	1Set	48,000
		RR2-CoIE1/TE- 20	20copies/2.5 μl	90 μl x 2		
		RR2-CoIE1/TE- 125	125copies/2.5 μl	90 μl x 2		
		RR2-CoIE1/TE- 1.5k	1,500copies/2.5 μl	90 μl x 2		
		RR2-CoIE1/TE- 20k	20,000copies/2.5 μl	90 μl x 2		
		RR2-CoIE1/TE- 250k	250,000copies/2.5 μl	90 μl x 2		

*1 If you would purchase reagents for RR2 detection, please send us an order request form each time you order.

We also need to receive **the signed hard copy** of the form.

<http://nippongene.com/siyaku/product/gmo-detection/gm-soy/gm-soy-rr2-q.html>

Plasmid

Code No.	Product Name	Component	Concentration	Volume	(Size)	Price (JPY)
311-04941	GM Soybean(RRS) Detection Positive Control Plasmid			50 μl		14,000

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume	(Size)	Price (JPY)
319-05601	GM Soybean(RRS) Detection Le1(for endogenous gene) Oligonucleotide Set	Le1n 02-5' & 3'	25 μM each	180 μl	1Set	36,000
		Le1-Taq	10 μM	180 μl		
316-05611	GM Soybean(RRS) Detection RRS Oligonucleotide Set	RRS 01-5' & 3'	25 μM each	180 μl	1Set	36,000
		RRS-Taq	10 μM	180 μl		
312-07391	GM Soybean(LLS) Detection LLS Oligonucleotide Set	KVM175 & SMO001	25 μM each	180 μl	1Set	36,000
		TM031-Taq	10 μM	180 μl		
319-07661	GM Soybean(RR2) Detection RR2 Oligonucleotide Set	MON89788-F & MON89788-R	25 μM each	180 μl	1Set	36,000
		MON89788-P	10 μM	180 μl		

Primers

Code No.	Product Name	Component	Concentration	Volume	(Size)	Price (JPY)
313-05501	GM Soybean(RRS) Detection Le1n02 (for endogenous gene) Oligonucleotide	Le1n 02-5' & Le1n 02-3'	25 μM each	60 μl		14,000
319-05503				180 μl		22,800
310-05511	GM Soybean(RRS) Detection RRS-01 Oligonucleotide	RRS 01-5' & RRS 01-3'	25 μM each	60 μl		14,000
316-05513				180 μl		22,800

Maize

Standard Plasmid for quantitative analysis

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
313-05981	GM Maize Detection Plasmid Set-CoIE1/TE-	CoIE1/TE	5 ng/μl	90 μl x 2	1Set 37,000
		Maize-CoIE1/TE- 20	20copies/2.5 μl	90 μl x 2	
		Maize-CoIE1/TE- 125	125copies/2.5 μl	90 μl x 2	
		Maize-CoIE1/TE- 1.5k	1,500copies/2.5 μl	90 μl x 2	
		Maize-CoIE1/TE- 20k	20,000copies/2.5 μl	90 μl x 2	
		Maize-CoIE1/TE- 250k	250,000copies/2.5 μl	90 μl x 2	
318-08351	GM Maize (MIR604) Detection Plasmid Set -CoIE1/TE-	CoIE1/TE	5 ng/μl	90 μl x 2	1Set 37,000
		MIR604-CoIE1/TE- 20	20copies/2.5 μl	90 μl x 2	
		MIR604-CoIE1/TE- 125	125copies/2.5 μl	90 μl x 2	
		MIR604-CoIE1/TE- 1.5k	1,500copies/2.5 μl	90 μl x 2	
		MIR604-CoIE1/TE- 20k	20,000copies/2.5 μl	90 μl x 2	
		MIR604-CoIE1/TE- 250k	250,000copies/2.5 μl	90 μl x 2	
312-08371	GM Maize (MIR162) Detection Plasmid Set -CoIE1/TE-	CoIE1/TE	5 ng/μl	90 μl x 2	1Set 37,000
		MIR162-CoIE1/TE- 20	20copies/2.5 μl	90 μl x 2	
		MIR162-CoIE1/TE- 125	125copies/2.5 μl	90 μl x 2	
		MIR162-CoIE1/TE- 1.5k	1,500copies/2.5 μl	90 μl x 2	
		MIR162-CoIE1/TE- 20k	20,000copies/2.5 μl	90 μl x 2	
		MIR162-CoIE1/TE- 250k	250,000copies/2.5 μl	90 μl x 2	

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
314-04811	GM Maize Detection Positive Control Plasmid			50 μl	14,000
317-06621	GM Maize Detection Bt10 Positive Control Plasmid			50 μl	12,000
313-06623				50 μl x 5	36,000
317-04921	GM Maize Detection CBH351 Positive Control Plasmid			50 μl	12,000
313-04923				50 μl x 5	36,000

Maize

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume	(Size)	Price (JPY)
319-06061	GM Maize Detection SSIIb-3 (for endogenous gene) Oligonucleotide Set	SSIIb 3-5' & 3' SSIIb-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
311-05541	GM Maize Detection SSIIb (for endogenous gene) Oligonucleotide Set	SSIIb 1-5' & 3' SSIIb-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
318-05551	GM Maize Detection GA21 Oligonucleotide Set	GA21 3-5' & 3' GA21-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
315-05561	GM Maize Detection Bt11 Oligonucleotide Set	Bt11 3-5' & 3' Bt11-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
312-05571	GM Maize Detection E176 Oligonucleotide Set	E176 2-5' & 3' E176-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
319-05581	GM Maize Detection T25 Oligonucleotide Set	T25 1-5' & 3' T25-2-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
316-05591	GM Maize Detection M810 Oligonucleotide Set	M810 2-5' & 3' M810-Taq	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
311-08341	GM Maize Detection MIR604 Oligonucleotide Set	MIR604 primer F & R MIR604 probe	25 µM each 10 µM	180 µl 180 µl	1Set	36,000
315-08361	GM Maize Detection MIR162 Oligonucleotide Set	MIR162-f1 & r1 MIR162-p1	25 µM each 10 µM	180 µl 180 µl	1Set	36,000

Primers

Code No.	Product Name	Component	Concentration	Volume	(Size)	Price (JPY)
312-06051	GM Maize Detection SSIIb-3 (for endogenous gene) Oligonucleotide	SSIIb 3-5' & 3'	25 µM each	60 µl		14,000
318-06053				180 µl		22,800
315-05441	GM Maize Detection SSIIb (for endogenous gene) Oligonucleotide	SSIIb 1-5' & 3'	25 µM each	60 µl		14,000
311-05443				180 µl		22,800
312-05451	GM Maize Detection GA21-3 Oligonucleotide	GA21 3-5' & 3'	25 µM each	60 µl		14,000
318-05453				180 µl		22,800
319-05461	GM Maize Detection Bt11-3 Oligonucleotide	Bt11 3-5' & 3'	25 µM each	60 µl		14,000
315-05463				180 µl		22,800
316-05471	GM Maize Detection E176-2 Oligonucleotide	E176 2-5' & 3'	25 µM each	60 µl		14,000
312-05473				180 µl		22,800
313-05481	GM Maize Detection T25-1 Oligonucleotide	T25 1-5' & 3'	25 µM each	60 µl		14,000
319-05483				180 µl		22,800
310-05491	GM Maize Detection M810-2 Oligonucleotide	M810 2-5' & 3'	25 µM each	60 µl		14,000
316-05493				180 µl		22,800
318-05671	GM Maize Detection Zein (for endogenous gene) Oligonucleotide	Zein n-5' & 3'	25 µM each	60 µl		12,000
314-05673				180 µl		18,800
313-06601	GM Maize Detection Bt10 (for 1st screening) Oligonucleotide	JSF5 & JSR5	25 µM each	60 µl		12,000
319-06603				180 µl		18,800
310-06611	GM Maize Detection Bt10 (for 2nd screening) Oligonucleotide	Bt10LS-5' & Bt10LS-3'	25 µM each	60 µl		12,000
316-06613				180 µl		18,800
315-05681	GM Maize Detection CBH351 (for 1st screening) Oligonucleotide	CaM03-5' & CBH02-3'	25 µM each	60 µl		12,000
311-05683				180 µl		18,800
312-05691	GM Maize Detection CBH351 (for 2nd screening) Oligonucleotide	Cry9C-5' & 35Ster-3'	25 µM each	60 µl		12,000
318-05693				180 µl		18,800

Maize

For GM Maize detection (Single Kernel)

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
314-07231	GM Maize (Single Kernel) Detection Positive Control Plasmid			50 µl	14,000
318-07251	GM Maize Multiplex PCR Marker		0.18 µg/5 µl	50 µl	14,000

Potato

Plasmid

	Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
*3	311-08601	GM Potato Detection INNATE™ EFJ Positive Control Plasmid			50 µl	18,000
*3	317-08603				50 µl x 5	54,000
	311-05301	GM Potato Detection New Leaf Plus Positive Control Plasmid			50 µl	12,000
	317-05303				50 µl x 5	36,000

*3 If you would purchase reagents for INNATE™ detection, please complete a **consent form** and send to us each time you order.

The products are available only to customers who meet certain conditions.

<http://nippongene.com/siyaku/product/gmo-detection/gm-potato/gm-potato-efj.html>

Primers & Probe

	Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
*3	317-08561	GM Potato Detection APRT (for endogenous gene) Oligonucleotide Set	APRT F & APRT R	25 µM each	180 µl	1 Set 42,000
			APRT P	10 µM	60 µl	
*3	314-08571	GM Potato Detection E12 Oligonucleotide Set	E12 F & E12 R	25 µM each	180 µl	1 Set 42,000
			E12 P	10 µM	60 µl	
*3	311-08581	GM Potato Detection F10 Oligonucleotide Set	F10 F & F10 R	25 µM each	180 µl	1 Set 42,000
			F10 P	10 µM	60 µl	
*3	318-08591	GM Potato Detection J3 Oligonucleotide Set	J3 F & J3 R	25 µM each	180 µl	1 Set 42,000
			J3 P	10 µM	60 µl	

*3 If you would purchase reagents for INNATE™ detection, please complete a **consent form** and send to us each time you order.

The products are available only to customers who meet certain conditions.

<http://nippongene.com/siyaku/product/gmo-detection/gm-potato/gm-potato-efj.html>

Potato
Primers

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
315-05701	GM Potato Detection Pss (for endogenous gene) Oligonucleotide	Pss 01n-5' & 3'	25 µM each	60 µl	12,000
311-05703				180 µl	18,800
312-05711	GM Potato Detection New Leaf Plus (for 1st screening) Oligonucleotide	P-FMV02-5' & PLRV01-3'	25 µM each	60 µl	12,000
318-05713				180 µl	18,800
319-05721	GM Potato Detection New Leaf Plus (for 2nd screening) Oligonucleotide	PLRV-rep1-5' & 3'	25 µM each	60 µl	12,000
315-05723				180 µl	18,800

For GM Potato detection by other methods

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
317-06501	GM Potato Positive Control Plasmid (for qualitative analysis)			50 µl	12,000
313-06503				50 µl x 5	36,000
310-05991	GM Potato Detection UGPase Oligonucleotide	UGPase01-5' & 3'	25 µM each	60 µl	12,000
316-05993				180 µl	18,800
310-06471	GM Potato Screening CryIIIA Oligonucleotide	Cry IIIA 01-5' & 3'	25 µM each	60 µl	12,000
316-06473				180 µl	18,800
317-06481	GM Potato Detection New Leaf Oligonucleotide	NL 01-5' & 3'	25 µM each	60 µl	12,000
313-06483				180 µl	18,800
314-06491	GM Potato Detection New Leaf Plus (NLP01) Oligonucleotide	NLP 01-5' & 3'	25 µM each	60 µl	12,000
310-06493				180 µl	18,800
314-06011	GM Potato Detection New Leaf Y SEMT 15-02 (for 2nd screening) Oligonucleotide	NLY01-5' & 3'	25 µM each	60 µl	12,000
310-06013				180 µl	18,800

Papaya

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
317-07721	GM Papaya Detection 55-1 Positive Control Plasmid 2			50 µl	12,000
313-07723				50 µl x 5	36,000
314-08191	GM Papaya Detection PRSV HN Positive Control Plasmid			50 µl	12,000
310-08193				50 µl x 5	36,000

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
317-08181	GM Papaya Detection Chy (for endogenous gene) Oligonucleotide Set	Q-Chy-1F2 & Q-Chy-2R	25 µM each	180 µl	1 Set 36,000
		Q-Chy-P(new)	10 µM	60 µl	
310-07711	GM Papaya Detection 55-1(Event-specific) Oligonucleotide Set	PRSV-cp F & PRSV-cp R	25 µM each	180 µl	1 Set 36,000
		PRSV-cp P	10 µM	60 µl	
310-81211	GM Papaya Detection PRSV-YK(35S) Oligonucleotide Set	35S-F & 35S-R	25 µM each	180 µl	1 Set 36,000
		35S-P	10 µM	180 µl	
313-81201	GM Papaya Detection PRSV-YK(YK-2) Oligonucleotide Set	YK-2F & YK-2R	25 µM each	180 µl	1 Set 36,000
		YK-2P	10 µM	180 µl	
315-07881	GM Papaya Detection PRSV-SC Oligonucleotide Set	SC-F & SC-R	25 µM each	180 µl	1 Set 36,000
		SC-P	10 µM	60 µl	

Primers

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
317-08201	GM Papaya Detection HN Oligonucleotide	HN-F & HN-R	25 µM each	60 µl	12,000
313-08203				180 µl	18,800

Rice

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
310-07571	GM Rice Detection (IR) Rice Positive Control Plasmid 2			50 µl	12,000
316-07573				50 µl x 5	36,000
317-06741	GM Rice Detection Bt Rice Positive Control Plasmid			50 µl	12,000
313-06743				50 µl x 5	36,000

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
312-07531	GM Rice Detection PLD (for endogenous gene) Oligonucleotide Set 2	PLD3959F & PLD4038R	25 µM each	180 µl	1 Set 36,000
		PLD-P	10 µM	180 µl	
319-07541	GM Rice Detection (63Bt) Oligonucleotide Set 2	T52-SF & OsNOS-R2	25 µM each	180 µl	1 Set 36,000
		GM63-Taq	10 µM	180 µl	
316-07551	GM Rice Detection (NNBt) Oligonucleotide Set 2	T52-SF & OsNOS-R2	25 µM each	180 µl	1 Set 36,000
		NGMr-Taq	10 µM	180 µl	

Primers

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
313-07561	GM Rice Detection (CpTI) Oligonucleotide 2	CpTI-2F & NOS-1R	25 µM each	60 µl	12,000
317-07581			25 µM each	180 µl	18,800
316-06691	GM Rice Detection SPS (for endogenous gene) Oligonucleotide	SPSF & SPSR	25 µM each	60 µl	12,000
312-06693			25 µM each	180 µl	18,800
319-06701	GM Rice Detection Cry1Ac Oligonucleotide	AC-3F & AC-3R	25 µM each	60 µl	12,000
315-06703			25 µM each	180 µl	18,800
316-06711	GM Rice Detection Bt Rice (for 1st screening) Oligonucleotide	Oscry1 Ac-F & OsNOS-R2	25 µM each	60 µl	12,000
312-06713			25 µM each	180 µl	18,800
313-06721	GM Rice Detection Bt Rice (for 2nd screening) Oligonucleotide	actACS3F & actACS3R	25 µM each	60 µl	12,000
319-06723			25 µM each	180 µl	18,800

Rapa

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
317-07221	B.rapa Discrimination B.rapa Positive Control Plasmid			50 µl	12,000
313-07223				50 µl x 5	36,000
316-07171	B.rapa Discrimination B.napus Positive Control Plasmid			50 µl	12,000
312-07173				50 µl x 5	36,000

Primers

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
313-07181	B.rapa Discrimination ACCg8 Oligonucleotide	B.rapa-ACCg8 F & R	50 µM each	60 µl	12,000
319-07183			50 µM each	180 µl	18,800
310-07191	B.rapa Discrimination BnC1 Oligonucleotide	B.napus BnC1-969F & BnC1-1043R	50 µM each	60 µl	12,000
316-07193			50 µM each	180 µl	18,800

Salmon

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
318-08731	GM Salmon Detection AquAd Positive Control Plasmid			50 μ l	15,000
314-08733				50 μ l x 5	45,000

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
314-08711	GM Salmon Detection 18SrRNA (for endogenous gene) Oligonucleotide Set	18S-F & 18S-R 18S-P	25 μ M each 10 μ M	180 μ l 60 μ l	1 Set 36,000

Primers

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
312-08751	GM Salmon Detection AquAd Oligonucleotide	AquAd-F & AquAd-R	25 μ M each	180 μ l	22,800

Others

Calibration Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
318-06771	HEX Calibration Probe		3.2 μ M	3mL	15,000

License

This product is sold under licensing arrangements with National Food Research Institute, Asahi Breweries, Ltd., Nippon Flour Mills Co., Ltd.

Code No.:

315-05441, 311-05443, 312-06051, 318-06053, 312-05451, 318-05453, 319-05461, 315-05463, 316-05471, 312-05473, 313-05481, 319-05483,
310-05491, 316-05493, 313-05501, 319-05503, 310-05511, 316-05513, 317-05521, 313-05523, 314-05531, 310-05533,
311-05541, 319-06061, 318-05551, 315-05561, 312-05571, 319-05581, 316-05591, 311-08341, 315-08361,
319-05601, 316-05611, 313-05621, 310-05631, 310-08551, 319-07661, 312-07391,
314-04811, 314-07231, 319-04981, 313-05981, 318-08351, 312-08371, 311-04941, 310-05131, 316-05971, 316-04991, 318-06031, 316-07671, 315-07381

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