

List of GMO detection related products

ver. 32

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

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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/ μ l	90 μ l x 2	12,000

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 μ M each 10 μ M	180 μ l 90 μ l	1Set 30,000
310-05631	GMO Detection NOS Oligonucleotide Set	NOS ter 2-5' & NOS ter 2-3' NOS-Taq	25 μ M each 10 μ M	180 μ l 180 μ l	1Set 36,000
310-08551	GMO Detection NOS Oligonucleotide Set 2	NOS ter 3-5' & NOS ter 2-3' NOS-Taq	25 μ M each 10 μ M	180 μ l 180 μ l	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 μ M each	60 μ l	14,000
313-05523				180 μ l	22,800
314-05531	GMO Detection NOS ter-2 Oligonucleotide	NOS ter 2-5' & NOS ter 2-3'	25 μ M each	60 μ l	14,000
310-05533				180 μ l	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-ColE1/TE-	ColE1/TE Soy-ColE1/TE- 20 Soy-ColE1/TE- 125 Soy-ColE1/TE- 1.5k Soy-ColE1/TE- 20k Soy-ColE1/TE- 250k	5 ng/ μ l 20copies/2.5 μ l 125copies/2.5 μ l 1,500copies/2.5 μ l 20,000copies/2.5 μ l 250,000copies/2.5 μ l	90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2	1Set	37,000	
315-07381	GM Soybean(LLS) Detection Plasmid Set-ColE1/TE-	ColE1/TE LLS-ColE1/TE- 20 LLS-ColE1/TE- 125 LLS-ColE1/TE- 1.5k LLS-ColE1/TE- 20k LLS-ColE1/TE- 250k	5 ng/ μ l 20copies/2.5 μ l 125copies/2.5 μ l 1,500copies/2.5 μ l 20,000copies/2.5 μ l 250,000copies/2.5 μ l	90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2	1Set	37,000	
*1	316-07671	GM Soybean(RR2) Detection Plasmid Set-ColE1/TE-	ColE1/TE RR2-ColE1/TE- 20 RR2-ColE1/TE- 125 RR2-ColE1/TE- 1.5k RR2-ColE1/TE- 20k RR2-ColE1/TE- 250k	5 ng/ μ l 20copies/2.5 μ l 125copies/2.5 μ l 1,500copies/2.5 μ l 20,000copies/2.5 μ l 250,000copies/2.5 μ l	90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2 90 μ l x 2	1Set	48,000
*1	316-09131	GM Soy Δ Δ Cq Standard Plasmid Set	ColE1/TE GM Soy Δ Δ Cq Standard Plasmid 50 GM Soy Δ Δ Cq Standard Plasmid 100K	5ng/ μ L 50copies/ μ L 100,000copies/ μ L	180 μ L x 2 120 μ L x 2 60 μ L x 2	1Set	37,000

*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.

Plasmid

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

Soybean

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' Le1-Taq	25 μ M each 10 μ M	180 μ l 180 μ l	1Set	36,000
316-05611	GM Soybean(RRS) Detection RRS Oligonucleotide Set	RRS 01-5' & 3' RRS-Taq	25 μ M each 10 μ M	180 μ l 180 μ l	1Set	36,000
312-07391	GM Soybean(LLS) Detection LLS Oligonucleotide Set	KVM175 & SMO001 TM031-Taq	25 μ M each 10 μ M	180 μ l 180 μ l	1Set	36,000
319-07661	GM Soybean(RR2) Detection RR2 Oligonucleotide Set	MON89788-F & MON89788-R MON89788-P	25 μ M each 10 μ M	180 μ l 180 μ l	1Set	36,000

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 μ M each	60 μ l		14,000
319-05503				180 μ l		22,800
310-05511	GM Soybean(RRS) Detection RRS-01 Oligonucleotide	RRS 01-5' & RRS 01-3'	25 μ M each	60 μ l		14,000
316-05513				180 μ l		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-	ColE1/TE	5 ng/ μ l	90 μ l x 2	1Set 37,000
		Maize-CoIE1/TE- 20	20copies/2.5 μ l	90 μ l x 2	
		Maize-CoIE1/TE- 125	125copies/2.5 μ l	90 μ l x 2	
		Maize-CoIE1/TE- 1.5k	1,500copies/2.5 μ l	90 μ l x 2	
		Maize-CoIE1/TE- 20k	20,000copies/2.5 μ l	90 μ l x 2	
		Maize-CoIE1/TE- 250k	250,000copies/2.5 μ l	90 μ l x 2	
318-08351	GM Maize (MIR604) Detection Plasmid Set -CoIE1/TE-	ColE1/TE	5 ng/ μ l	90 μ l x 2	1Set 37,000
		MIR604-CoIE1/TE- 20	20copies/2.5 μ l	90 μ l x 2	
		MIR604-CoIE1/TE- 125	125copies/2.5 μ l	90 μ l x 2	
		MIR604-CoIE1/TE- 1.5k	1,500copies/2.5 μ l	90 μ l x 2	
		MIR604-CoIE1/TE- 20k	20,000copies/2.5 μ l	90 μ l x 2	
		MIR604-CoIE1/TE- 250k	250,000copies/2.5 μ l	90 μ l x 2	
312-08371	GM Maize (MIR162) Detection Plasmid Set -CoIE1/TE-	ColE1/TE	5 ng/ μ l	90 μ l x 2	1Set 37,000
		MIR162-CoIE1/TE- 20	20copies/2.5 μ l	90 μ l x 2	
		MIR162-CoIE1/TE- 125	125copies/2.5 μ l	90 μ l x 2	
		MIR162-CoIE1/TE- 1.5k	1,500copies/2.5 μ l	90 μ l x 2	
		MIR162-CoIE1/TE- 20k	20,000copies/2.5 μ l	90 μ l x 2	
		MIR162-CoIE1/TE- 250k	250,000copies/2.5 μ l	90 μ l x 2	
313-09141	GM Maize $\Delta \Delta$ Cq Standard Plasmid Set	ColE1/TE	5ng/ μ L	180 μ L x 2	1Set 32,000
		GM Maize $\Delta \Delta$ Cq Standard Plasmid 100	100copies/ μ L	120 μ L x 2	
		GM Maize $\Delta \Delta$ Cq Standard Plasmid 200K	200,000copies/ μ L	60 μ L x 2	

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
314-04811	GM Maize Detection Positive Control Plasmid			50 μ l	14,000
317-06621	GM Maize Detection Bt10 Positive Control Plasmid			50 μ l	12,000
313-06623				50 μ l x 5	36,000
317-04921	GM Maize Detection CBH351 Positive Control Plasmid			50 μ l	12,000
313-04923				50 μ l 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	310-09031	GM Potato Detection INNATE™ XY Positive Control Plasmid			50 µl	18,000
*3	316-09033				50 µl x 5	54,000
*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 NewLeaf 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.

<https://www.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	1Set 42,000
			APRT P	10 µM	60 µl	
*3	316-09011	GM Potato Detection X17 Oligonucleotide Set	X17-F & X17-R	25 µM each	180 µl	1 Set 42,000
			X17-P	10 µM	60 µl	
*3	313-09021	GM Potato Detection Y9 Oligonucleotide Set	Y9-F & Y9-R	25 µM each	180 µl	1 Set 42,000
			Y9-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.

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

Primers

	Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
	311-05703	GM Potato Detection Pss (for endogenous gene) Oligonucleotide	Pss 01n-5' & 3'	25 µM each	180 µl	18,800
	318-05713	GM Potato Detection NewLeaf Plus (for 1st screening) Oligonucleotide	p-FMV02-5' & PLRV01-3'	25 µM each	180 µl	18,800
	315-05723	GM Potato Detection NewLeaf Plus (for 2nd screening) Oligonucleotide	PLRV-rep1-5' & 3'	25 µM each	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
	316-05993	GM Potato Detection UGPase Oligonucleotide	UGPase01-5' & 3'	25 µM each	180 µl	18,800
	316-06473	GM Potato Screening CryIIIA Oligonucleotide	Cry IIIA 01-5' & 3'	25 µM each	180 µl	18,800
	313-06483	GM Potato Detection NewLeaf Oligonucleotide	NL 01-5' & 3'	25 µM each	180 µl	18,800
	310-06493	GM Potato Detection NewLeaf Plus (NLP01) Oligonucleotide	NLP 01-5' & 3'	25 µM each	180 µl	18,800
	310-06013	GM Potato Detection NewLeaf Y SEMT 15-02 (for 2nd screening) Oligonucleotide	NLY01-5' & 3'	25 µM each	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 μ l	12,000
313-07723				50 μ l x 5	36,000
314-08191	GM Papaya Detection PRSV HN Positive Control Plasmid			50 μ l	12,000
310-08193				50 μ l 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 Q-Chy-P(new)	25 μ M each 10 μ M	180 μ l 60 μ l	1 Set 36,000
310-07711	GM Papaya Detection 55-1(Event-specific) Oligonucleotide Set	PRSV-cp F & PRSV-cp R PRSV-cp P	25 μ M each 10 μ M	180 μ l 60 μ l	1 Set 36,000
310-81211	GM Papaya Detection PRSV-YK(35S) Oligonucleotide Set	35S-F & 35S-R 35S-P	25 μ M each 10 μ M	180 μ l 180 μ l	1 Set 36,000
313-81201	GM Papaya Detection PRSV-YK(YK-2) Oligonucleotide Set	YK-2F & YK-2R YK-2P	25 μ M each 10 μ M	180 μ l 180 μ l	1 Set 36,000
315-07881	GM Papaya Detection PRSV-SC Oligonucleotide Set	SC-F & SC-R SC-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)
313-08203	GM Papaya Detection HN Oligonucleotide	HN-F & HN-R	25 μ M each	180 μ l	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 PLD-P	25 µM each	180 µl	1 Set 36,000
			10 µM	180 µl	
319-07541	GM Rice Detection (63Bt) Oligonucleotide Set 2	T52-SF & OsNOS-R2 GM63-Taq	25 µM each	180 µl	1 Set 36,000
			10 µM	180 µl	
316-07551	GM Rice Detection (NNBt) Oligonucleotide Set 2	T52-SF & OsNOS-R2 NGMr-Taq	25 µM each	180 µl	1 Set 36,000
			10 µM	180 µl	

Primers

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

Rapeseed (Canola)

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)
319-07183	B.rapa Discrimination ACCg8 Oligonucleotide	B.rapa-ACCg8 F & R	50 µM each	180 µl	18,800
316-07193	B.rapa Discrimination BnC1 Oligonucleotide	B.napus BnC1-969F & BnC1-1043R	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 µl	15,000
314-08733				50 µl 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 µM each 10 µM	180 µl 60 µl	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 µM each	180 µl	22,800

Wheat

Plasmid

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
315-08981	GM Wheat Detection MON71200 Positive Control Plasmid			50 µl	15,000
311-08983				50 µl x 5	45,000

Primers & Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
319-09001	GM Wheat Detection ACC1 (for endogenous gene) Oligonucleotide Set	acc forward primer & acc reverse primer acc FAM-probe	25 µM each 10 µM	180 µl 180 µl	1 Set 36,000

Others

Calibration Probe

Code No.	Product Name	Component	Concentration	Volume (Size)	Price (JPY)
318-06771	HEX Calibration Probe		3.2 µM	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, 313-05981, 318-08351, 312-08371, 311-04941, 316-05971, 318-06031, 316-07671, 315-07381, 316-09131, 313-09141

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