# BIOPREMIER Brand Catalog

BPMR Produção e Desenvolvimento, Unipessoal

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#### About us:

BPMR is an independent company providing service in the food area. It was founded in 2016 to become an innovation driver for products in molecular biology. Despite the young age we gather over 20 years of experience in molecular biology solution. Our clients are laboratories, private or government owned, that need high quality kit solutions or support in building up their molecular biology portfolio.



#### **Our Kits:**

- Pathogen
- Environmental
- Wine Spoilage
- GMO
- Allergen
- Plant Pathogen
- Supreme Meat
- Supreme Fish
- DNA Standards

- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- DNA Plant kit
- RNA Viral kit



#### Our Real Time PCR Detection kits:

- Pathogen
- Environmental
- Wine Spoilage
- GMO
- Allergen
- Plant Pathogen
- Supreme Meat
- Supreme Fish
- DNA Standards



#### Real Time PCR Detection Kit *Campylobacter jejuni*

Description: enables detection of *C. jejuni* in food samples, after enrichment in Bolton broth and DNA extraction.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Detects down to  $10^3-10^4$  cfu/mL in enrichment cultures. Sensitivity of 250 fg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 22 strains of *C. jejuni.* 

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0005) 100 reactions (ref: BIOPFS-0005)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 µL
Positive Control	•	1 x 70 µL





#### Real Time PCR Detection Kit *Cronobacter* spp.

Description: enables detection of *Cronobacter* spp. in food samples, after enrichment in buffered peptone water and DNA extraction.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Detects down to  $10^3-10^4$  cfu/mL in enrichment cultures. Sensitivity of 25 fg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 2 strains of *Cronobacter* spp.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0047) 100 reactions (ref: BIOPFS-0047)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 μL



#### SUPREME Real Time PCR Detection Kit *E. coli* O157:H7/O157 Duplex

**Description:** enables detection of pathogenic *E. coli* O157 and allows the simultaneous detection of the serotype O157:H7 DNA in food samples.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Sensitivity of 1 pg of target DNA.

Characteristics: 100% Exclusivity - determined using 13 strains of closely related organisms or occurring in the same habitat, including non-pathogenic *E. coli* and other serotypes of *E. coli*. 100% Inclusivity - determined in 9 strains of *E. coli* O157:H7 and *E. coli* O157.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM, VIC and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0059) 100 reactions (ref: BIOPSFS-0059)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 μL
Negative Control	0	1 x 130 µL
Positive Control	•	1 x 130 µL





#### Real Time PCR Detection Kit *E. coli* EPEC, VTEC and EHEC

**Description:** enables detection of *E. coli* EPEC, VTEC and EHEC in food samples, after enrichment in buffered peptone water and DNA extraction.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Detects down to  $10^3$ - $10^4$  cfu/mL in enrichment cultures. Sensitivity of 25 pg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 18 positive samples for *eae*, *vtx1* and/or *vtx2* genes of *E. coli*.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 50 + 50 + 50 reactions (ref: BIOPFS-0002)

Contents	Units
Master Mix	3 x 840 μL
Assay Mix - eae 🛛 🌑	1 x 105 μL
Assay Mix – vtx1 🌘	1 x 105 μL
Assay Mix – vtx2 🌘	1 x 105 μL
Negative Control 🔾	1 x 105 μL
Positive Control 🔴	1 x 105 μL



#### SUPREME Real Time PCR Detection Kit *E. coli* (*stx1*, *stx2* and *eae*)



**Description:** enables detection of pathogenic *E. coli* associated with the pathotypes EPEC, STEC and the subgroup EHEC associated with the combination of the virulence genes stx1 and/or stx2 and eae in food samples.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment.

Characteristics: 100% Exclusivity - tested with 37 closely related or cohabiting organisms. Inclusivity - Correctly identified 66 out of 67 *E. coli* strains containing *stx1*, *stx2*, and *eae* genes (O157, O26, O1O3, O111, and O145).

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 50 + 50 reactions (ref: BIOPSFS-0002)

Contents	Units
Master Mix EPEC 🔵	1 x 683 μL
Master Mix STEC 🔵	1 x 683 μL
Enzymes 😑	1 x 220 μL
Negative Control 🔘	1 x 130 μL
Positive Control 🛛 🔴	1 x 130 µL



#### Real Time PCR Detection Kit *E. coli* Serogroup determination

Description: enables detection of the five serogroups of this microorganism - *E. coli* O157, O26, O111, O103, and O145, in food samples.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 45 *E. coli* strains and 5 positive cultures.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 50 + 50 + 50 + 50 + 50 reactions (ref: BIOPFS-0045)

Contents	Units
Master Mix	5 x 840 μL
Assay Mix – O157	● 1 x 105 μL
Assay Mix – O26	● 1 x 105 μL
Assay Mix – O111	1 x 105 μL
Assay Mix – O103	1 x 105 μL
Assay Mix – O145	1 x 105 μL
Negative Control	Ο 1 x 175 μL
Positive Control	🔴 1 x 175 μL
BIOPREMIER BIOPREMIER BIOPREMIER	REAL TIME DETECTION KIT E. coli serogroup determination For in vitro use only 250 RXN BIOPFS-0045 STORE AT-200C
dens save under	250 RXN BIOPFS-0045 STORE AT -20°C

#### Real Time PCR Detection Kit *Listeria monocytogenes*

Description: enables detection of *L. monocytogenes* in food samples, after enrichment in buffered peptone water and DNA extraction.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Detects down to  $10^3-10^4$  cfu/mL in enrichment cultures. Sensitivity of 500 fg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 23 strains of *L. monocytogenes*.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0003) 100 reactions (ref: BIOPFS-0003)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 μL
Negative Control	0	1 x 70 µL
Positive Control		1 x 70 μL



# Real Time PCR Detection Kit **Salmonella spp.**

Description: enables detection of *Salmonella* spp. in food samples, after enrichment in buffered peptone water and DNA extraction.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Detects down to  $10^3-10^4$  cfu/mL in enrichment cultures. Sensitivity of 500 fg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 60 strains of *Salmonella* spp.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0001) 100 reactions (ref: BIOPFS-0001)



#### Real Time PCR Detection Kit Vibrio spp. (V. cholerae, V. parahaemolyticus and V. vulnificus)

**Description:** enables detection of *V. cholerae*, *V. parahaemolyticus* and *V. vulnificus* in food samples, animal feedstuff and environmental samples, after enrichment in saline buffered peptone water and DNA extraction.

LOD: 1 to 10 cells per 25 g of food sample can be achieved after enrichment. Detects down to  $10^3$ - $10^4$  cfu/mL in enrichment cultures. Sensitivity of 250 pg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 23 positive samples for *Vibrio* spp.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0004) 100 reactions (ref: BIOPFS-0004)

Contents	Units
Master Mix	) 2 x 840 µL
Assay Mix - V. cholerae	1 x 210 μL
Assay Mix – V. parahaemolyticus 🥚	1 x 210 μL
Assay Mix – V. vulnificus	1 x 210 μL
Negative Control	) 1 x 70 μL
Positive Control	1 x 70 μL

REAL TIME DETECTION KIT Vibrio spp.

for in vitro use only

BIOPES-0004 STORE AT -20%

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- Pathogen
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- Plant Pathogen
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- Supreme Fish
- DNA Standards



## Real Time PCR Detection Kit *Legionella pneumophila*

**Description:** enables detection of *L. pneumophila* in environmental swab samples and water samples following concentration by membrane filtration and DNA extraction.

LOD: 10<sup>3</sup>-10<sup>4</sup> cells/L after water concentration. Sensitivity of 5 pg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 28 strains of *L. pneumophila* including with different serogroups.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0015) 100 reactions (ref: BIOPFS-0015)



# Real Time PCR Detection Kit *Legionella* spp.

**Description:** enables detection of *Legionella* spp. in environmental swab samples and water samples following concentration by membrane filtration and DNA extraction.

LOD: 10<sup>3</sup>-10<sup>4</sup> cells/L after water concentration. Sensitivity of 5 pg of target DNA.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 30 strains of *Legionella* spp., including *L. micdadei* and different serogroups of *L. pneumophila*.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0014) 100 reactions (ref: BIOPFS-0014)



#### Real Time PCR Detection Kit Legionella spp. and L. pneumophila Duplex

**Description:** enables the simultaneous detection of *Legionella* spp. and *L. pneumophila* environmental swab samples and water samples following concentration by membrane filtration and DNA extraction.

LOD:  $10^3-10^4$  cells/L after water concentration for both targets. Sensitivity of 5 pg of target DNA for both targets.

Characteristics: 100% Exclusivity - determined using 30 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 30 strains of *Legionella* spp., including *L. micdadei* and different serogroups of *L. pneumophila*.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM, VIC and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0021) 100 reactions (ref: BIOPFS-0021)





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#### Real Time PCR Detection Kit Brettanomyces/Dekkera bruxellensis

Description: enables detection of *B. bruxellensis* in wine and other beverages after DNA extraction.

LOD: 10<sup>2</sup>-10<sup>3</sup> cfu/45 mL after sample concentration. Sensitivity of 20 fg of target DNA.

Characteristics: 100% Exclusivity - determined using 34 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 3 strains of *B. bruxellensis*.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0019) 100 reactions (ref: BIOPFS-0019)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 µL
Positive Control	•	1 x 70 µL





## Real Time PCR Detection Kit **Zygosaccharomyces bailii**

Description: enables detection of *Z. bailii* in wine and other beverages after DNA extraction.

LOD:  $10^2$ - $10^3$  cfu/45 mL after sample concentration. Sensitivity of 50 fg of target DNA.

Characteristics: 100% Exclusivity - determined using 33 strains of closely related organisms or occurring in the same habitat. 100% Inclusivity - determined in 4 strains of *Z. bailii*.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0020) 100 reactions (ref: BIOPFS-0020)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 μL



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## Real Time PCR Detection Kit **P-35S and T-NOS**

Description: enables detection of P-35S and T-NOS elements in food and feedstuff products, after DNA extraction.

LOD: 25 and 50 pg of target DNA for P-35S and T-NOS, respectively. Detects 0.05% (P-35S) and 0.1% (T-NOS) of the target GMO in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from non-target GMOs and other vegetables likely to occur in the same food products; 18 non-target species for P-35S and 21 non-target species for T-NOS. 100% Inclusivity - determined in 9 positive samples.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 + 10 reactions (ref: BIOPFS-sp0016) 100 + 100 reactions (ref: BIOPFS-0016)



## Real Time PCR Detection Kit **P-35S, T-NOS and P-FMV**

Description: enables detection of P-35S, T-NOS and P-FMV elements in food and feedstuff products, after DNA extraction.

LOD: 25, 50 and 250 pg of target DNA for P-35S, T-NOS and P-FMV, respectively. Detects 0.05% (P-35S), 0.1% (T-NOS) and 0.5% (P-FMV) of the target GMO in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from non-target GMOs and other vegetables suitable to occur in the same food products; 18 non-target species for P-35S, 21 non-target species for T-NOS and 31 non-target species for P-FMV. 100% Inclusivity - determined in 9 positive samples.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 5 + 5 + 5 reactions (ref: BIOPFS-sp0017) 50 + 50 + 50 reactions (ref: BIOPFS-0017)

Contents	Units
Master Mix	3 x 840 µL
Assay Mix - P-35S 🛛 🌑	1 x 105 µL
Assay Mix – T-NOS 🔴	1 x 105 µL
Assay Mix – P-FMV 🔴	1 x 105 µL
Negative Control	1 x 105 μL
Positive Control	1 x 105 μL



## Real Time PCR Detection Kit **P-FMV**

**Description:** enables detection of P-FMV elements in food and feedstuff products, after DNA extraction.

LOD: 250 pg of target DNA. Detect 0.5% of the target GMO in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 31 non-target GMOs and other vegetables suitable to occur in the same food products. 100% Inclusivity - determined in 9 positive samples.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0018) 100 reactions (ref: BIOPFS-0018)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 µL





#### Our Real Time PCR Detection kits:

- Pathogen
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- Plant Pathogen
- Supreme Meat
- Supreme Fish
- DNA Standards



# Real Time PCR Detection Kit **Almond**

Description: enables detection of almond (*Prunus dulcis*) DNA in food products, after DNA extraction.

LOD: 1 pg of target DNA. The method's detection limit can detect 0.001% of almond DNA in 100 ng of total DNA.

Characteristics: 92% Exclusivity\* - determined using 6 meat species, 19 sea animal species, and 28 plant species. 100% Inclusivity - determined in 6 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0061) 100 reactions (ref: BIOPFS-0061)

\*5 non-target species showed a positive result: Goji berries (*Lycium barbarum*), Cashew (*Anacardium occidentale*), Peach, Plum and Apricot (*Prunus persica, P. armeniaca, P. domestica*)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control		1 x 70 μL





## Real Time PCR Detection Kit **Cashew**

Description: enables detection of cashew (*Anacardium occidentale*) DNA in food products, after DNA extraction.

LOD: 1 pg of target DNA. The method's detection limit can detect 0.001% of cashew DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 5 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0054) 100 reactions (ref: BIOPFS-0054)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 μL



# Real Time PCR Detection Kit **Celery**

Description: enables detection of celery (*Apium graveolens*) DNA in food products, after DNA extraction.

LOD: 10 pg of target DNA. The method's detection limit can detect 0.01% of celery DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 7 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0049) 100 reactions (ref: BIOPFS-0049)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 μL





# Real Time PCR Detection Kit **Hazelnuts**

Description: enables detection of hazelnuts (*Corylus avellana*) DNA in food products, after DNA extraction.

LOD: 100 fg of target DNA. The method's detection limit can detect 0.0001% of hazelnuts DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 5 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0053) 100 reactions (ref: BIOPFS-0053)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 μL
Negative Control	$\bigcirc$	1 x 70 μL
Positive Control		1 x 70 µL



# Real Time PCR Detection Kit **Lupin**

Description: enables detection of lupin (*Lupinus albus*) DNA in food products, after DNA extraction.

LOD: 500 fg of target DNA. The method's detection limit can detect 0.0005% of lupin DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 5 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0055) 100 reactions (ref: BIOPFS-0055)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	$\bigcirc$	1 x 70 μL
Positive Control	•	1 x 70 μL



# Real Time PCR Detection Kit **Mustard**

Description: enables detection of mustard (*Sinapis alba*) DNA in food products, after DNA extraction.

LOD: 10 pg of target DNA. The method's detection limit can detect 0.01% of mustard DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species (including Black mustard - *Brassica nigra*). 100% Inclusivity - determined in 6 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0060) 100 reactions (ref: BIOPFS-0060)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 μL
Negative Control	0	1 x 70 μL
Positive Control		1 x 70 µL



# Real Time PCR Detection Kit **Peanuts**

Description: enables detection of peanut (*Arachis hypogaea*) DNA in food products, after DNA extraction.

LOD: 10 pg of target DNA. The method's detection limit can detect 0.01% of peanut DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 4 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0051) 100 reactions (ref: BIOPFS-0051)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 μL
Negative Control	0	1 x 70 µL
Positive Control		1 x 70 µL



# Real Time PCR Detection Kit **Pecan Walnut**

Description: enables detection of Pecan walnut (*Carya illinoinensis*) DNA in food products, after DNA extraction.

LOD: 10 fg of target DNA. The method's detection limit can detect 0.00001% of Pecan walnut DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 1 food sample obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0063) 100 reactions (ref: BIOPFS-0063)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 μL

REAL TIME DETECTION KIT

Pecan walnut

for in vitro use only BIOPFS-0063 / -sp0063 [ ] 100 RXN [ ] 10 RXN

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## Real Time PCR Detection Kit **Sesame**

Description: enables detection of sesame (Sesamum indicum) DNA in food products, after DNA extraction.

LOD: 1 pg of target DNA. The method's detection limit can detect 0.001% of sesame DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 4 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0050) 100 reactions (ref: BIOPFS-0050)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control	•	1 x 70 μL



## Real Time PCR Detection Kit **Soybean**

Description: enables detection of soybean (*Glycine max*) DNA in food products, after DNA extraction.

LOD: 50 pg of target DNA. The method's detection limit can detect 0.05% of soybean DNA in 100 ng of total DNA.

Characteristics: 100% Exclusivity - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 6 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0052) 100 reactions (ref: BIOPFS-0052)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	0	1 x 70 μL
Positive Control		1 x 70 μL



# Real Time PCR Detection Kit **Walnut**

Description: enables detection of walnut (*Juglans regia* L.) DNA in food products, after DNA extraction.

LOD: 10 fg of target DNA. The method's detection limit can detect 0.00001% of walnut DNA in 100 ng of total DNA.

Characteristics: 94% Exclusivity\* - determined using 6 meat species, 19 sea animal species, and 26 plant species. 100% Inclusivity - determined in 5 food samples obtained from different commercial sources.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPFS-sp0062) 100 reactions (ref: BIOPFS-0062)

\*3 non-target species showed a positive result: Goji berries (*Lycium barbarum*), Zucchini courgette (*Curcubita pepo* L.) and Pistachio (*Pistacia vera*)

Contents		Units
Master Mix		2 x 840 µL
Assay Mix		1 x 210 µL
Negative Control	$\bigcirc$	1 x 70 μL
Positive Control	•	1 x 70 µL




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### SUPREME Real Time PCR Detection Kit **HLVd**

Description: enables detection of Hop Latent Viroid (HLVd) in plant samples, after RNA extraction, based on one-step reverse transcription real-time PCR.

LOD: The sensitivity is determined to be at least 3 copies per reaction for the target, with 15 replicates tested at four different concentrations near the detection limit, which is 9 target copies per reaction for HLVd.

Characteristics: Specificity is ensured by the selection of highly specific primers and probes.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and Cy5 channels

Format: 100 reactions (ref: BIOPSFS-0064) 500 reactions (ref: BIOPSFS-0064x5)

Contents	Units
RNA reaction Mix 🥚	1 x 1060 μL
Assay Mix	1 x 735 μL
Negative Control	1 x 105 μL
Positive Control	1 x 105 μL





#### SUPREME Real Time PCR Detection Kit **HLVd LCV CanCV**

Description: enables detection of Hop Latent Viroid (HLVd), Lettuce Chlorotic Virus (LCV) and Cannabis Cryptic Virus (CanCV) in plant samples, after RNA extraction, based on one-step reverse transcription real-time PCR.

LOD: Sensitivity is at least 3 copies per reaction for all three targets, with 15 replicates tested at four different concentrations near the detection limit. The detection limits are 9 target copies per reaction for HLVd and CanCV, and 15 target copies per reaction for LCV.

Characteristics: Specificity is ensured by the selection of highly specific primers and probes.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM, VIC, ROX and Cy5 channels

Format: 100 reactions (ref: BIOPSFS-0065) 500 reactions (ref: BIOPSFS-0065x5)







#### Our Real Time PCR Detection kits:

- Pathogen
- Environmental
- Wine Spoilage
- GMO
- Allergen
- Plant Pathogen
- Supreme Meat
- Supreme Fish
- DNA Standards



# SUPREME Real Time PCR Detection Kit **Chicken**

Description: enables a qualitative/quantitative\* detection of chicken (*Gallus gallus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Gallus gallus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 11 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 5 food samples including obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0010) 100 reactions (ref: BIOPSFS-0010)

\* DNA Standard (ref: BIOPDNA-0010 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 µL
Negative Control	0	1 x 130 μL
Positive Control		1 x 130 µL





# SUPREME Real Time PCR Detection Kit **Cow**

Description: enables a qualitative/quantitative\* detection of bovine (*Bos taurus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Bos taurus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 12 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 6 food samples obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0006) 100 reactions (ref: BIOPSFS-0006)

\* DNA Standard (ref: BIOPDNA-0006 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 μL
Negative Control	$\bigcirc$	1 x 130 µL
Positive Control	•	1 x 130 µL
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# SUPREME Real Time PCR Detection Kit **Duck**

Description: enables a qualitative/quantitative\* detection of duck (*Anas platyrhynchos domesticus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Anas platyrhynchos domesticus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 12 animal species suitable to occur in the same food products. In the Anatidae family, *Anser domesticus* (goose) is also detected by the kit. 100% Inclusivity - determined in 5 food samples including obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0009) 100 reactions (ref: BIOPSFS-0009)

\* DNA Standard (ref: BIOPDNA-0009 – sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control	•	1 x 130 µL





# SUPREME Real Time PCR Detection Kit Goat

Description: enables a qualitative/quantitative\* detection of caprine (*Capra hircus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Capra hircus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 16 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 3 food samples including obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0012) 100 reactions (ref: BIOPSFS-0012)

\* DNA Standard (ref: BIOPDNA-0012 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control	•	1 x 130 µL





# SUPREME Real Time PCR Detection Kit **Horse**

Description: enables a qualitative/quantitative\* detection of equine (*Equus ferus caballus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Equus ferus caballus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 16 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 4 food samples including obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0008) 100 reactions (ref: BIOPSFS-0008)

\* DNA Standard (ref: BIOPDNA-0008 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes		1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control		1 x 130 µL





# SUPREME Real Time PCR Detection Kit **Sheep**

Description: enables a qualitative/quantitative\* detection of ovine (*Ovis aries*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Ovis aries* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 14 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 3 food samples including obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0013) 100 reactions (ref: BIOPSFS-0013)

\* DNA Standard (ref: BIOPDNA-0013 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control		1 x 130 µL





## SUPREME Real Time PCR Detection Kit **Swine**

Description: enables a qualitative/quantitative\* detection of swine (*Sus domesticus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Sus domesticus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 10 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 8 food samples including obtained from different commercial sources and from External Quality Control. Within *Sus* genus, the species *Sus scrofa* (boar) is also detected by the kit

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0007) 100 reactions (ref: BIOPSFS-0007)

\* DNA Standard (ref: BIOPDNA-0007 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	$\bigcirc$	1 x 220 µL
Negative Control	0	1 x 130 μL
Positive Control	•	1 x 130 µL





# SUPREME Real Time PCR Detection Kit **Total Meat**

Description: enables a qualitative detection of small amounts of meat DNA in a single real-time PCR reaction, after a sample processing extraction step.

LOD: 10 pg of meat DNA. The method's detection limit is 0.1% of animal DNA in 50 ng of food DNA.

Characteristics: 100% Exclusivity, determined using DNA from 29 non-animal species suitable to occur in the same food products. 100% Inclusivity, determined in 12 food samples obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0067) 100 reactions (ref: BIOPSFS-0067)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 µL
Negative Control	$\bigcirc$	1 x 130 µL
Positive Control	•	1 x 130 µL





# SUPREME Real Time PCR Detection Kit **Turkey**

Description: enables a qualitative/quantitative\* detection of turkey (*Meleagris gallopavo*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 10 pg of target DNA. The method's detection limit is 0.02% of *Meleagris gallopavo* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 12 animal species suitable to occur in the same food products. 100% Inclusivity - determined in 4 food samples including obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0011) 100 reactions (ref: BIOPSFS-0011)

\* DNA Standard (ref: BIOPDNA-0011 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	0	1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control		1 x 130 µL





# SUPREME Real Time PCR Detection Kit Vegan

Description: enables a qualitative detection of small amounts of animal DNA in a single real-time PCR reaction, after a sample processing extraction step.

LOD: 10 pg of animal DNA. The method's detection limit is 0.1% of animal DNA in 50 ng of vegan food DNA.

Characteristics: 100% Exclusivity, determined using DNA from 19 non-animal species suitable to occur in the same food products. 100% Inclusivity, determined in 22 food samples obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp0066) 100 reactions (ref: BIOPSFS-0066)

Contents		Units
Master Mix		2 x 683 µL
Enzymes		1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control		1 x 130 µL





#### Our Real Time PCR Detection kits:

- Pathogen
- Environmental
- Wine Spoilage
- GMO
- Allergen
- Plant Pathogen
- Supreme Meat
- Supreme Fish
- DNA Standards



#### SUPREME Real Time PCR Detection Kit Alaska pollock

Description: enables a qualitative/quantitative\* detection of Alaska Pollack (*Gadus chalcogrammus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 100 pg of target DNA. The method's detection limit is 0.2% of *Gadus chalcogrammus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 16 animal fish species obtained from different commercial sources and from External Quality Control. 100% Inclusivity - determined using DNA from 21 *Gadus chalcogrammus* fish samples obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp058) 100 reactions (ref: BIOPSFS-058)

\* DNA Standard (ref: BIOPDNA-057 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes	$\bigcirc$	1 x 220 μL
Negative Control	0	1 x 130 µL
Positive Control	•	1 x 130 µL





### SUPREME Real Time PCR Detection Kit Atlantic cod

Description: enables a qualitative/quantitative\* detection of Atlantic Cod (*Gadus morhua*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 100 pg of target DNA. The method's detection limit is 0.2% of *Gadus morhua* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 16 animal fish species obtained from different commercial sources and from External Quality Control. 100% Inclusivity - determined using DNA from 35 *Gadus morhua* fish samples obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp056) 100 reactions (ref: BIOPSFS-056)

\* DNA Standard (ref: BIOPDNA-056 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes		1 x 220 µL
Negative Control	0	1 x 130 μL
Positive Control		1 x 130 µL





## SUPREME Real Time PCR Detection Kit **Pacific cod**

Description: enables a qualitative/quantitative\* detection of Pacific Cod (*Gadus macrocephalus*) DNA in food samples by Real Time PCR, after a sample processing step.

LOD: 100 pg of target DNA. The method's detection limit is 0.2% of *Gadus macrocephalus* DNA in 50 ng of total DNA.

Characteristics: 100% Exclusivity - determined using DNA from 16 animal fish species obtained from different commercial sources and from External Quality Control. 100% Inclusivity - determined using DNA from 32 *Gadus macrocephalus* fish samples obtained from different commercial sources and from External Quality Control.

Advantages: Detect low amounts of target DNA Ready to use format

Technical specifications: Compatible with instruments working in FAM and ROX channels

Format: 10 reactions (ref: BIOPSFS-sp057) 100 reactions (ref: BIOPSFS-057)

\* DNA Standard (ref: BIOPDNA-057 - sold separately)

Contents		Units
Master Mix		2 x 683 µL
Enzymes		1 x 220 µL
Negative Control	0	1 x 130 µL
Positive Control		1 x 130 µL

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SUPREME

REAL TIME DETECTION KIT Pacific cod

for in vitro use only

BIOPSFS-0057 / -sp0057 [] 100 RXN [] 10 RXN STORE AT -20°C

#### Our Real Time PCR Detection kits:

- Pathogen
- Environmental
- Wine Spoilage
- GMO
- Allergen
- Plant Pathogen
- Supreme Meat
- Supreme Fish
- DNA Standards



#### DNA Standard SUPREME Alaska pollock

Description: fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-058)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-058 - sold separately)





#### DNA Standard SUPREME Atlantic cod

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-056)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-056 - sold separately)





### DNA Standard SUPREME **Pacific cod**

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-057)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-057 - sold separately)





### DNA Standard SUPREME **Chicken**

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0010)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0010 - sold separately)





### DNA Standard SUPREME **Cow**

Description: fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0006)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0006 - sold separately)





## DNA Standard SUPREME **Duck**

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0009)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0009 - sold separately)





#### DNA Standard SUPREME Goat

Description: fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0012)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0012 - sold separately)





#### DNA Standard SUPREME Horse

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0008)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0008 - sold separately)





# DNA Standard SUPREME **Sheep**

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0013)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0013 - sold separately)





### DNA Standard SUPREME **Swine**

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0007)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0007 - sold separately)





#### DNA Standard SUPREME **Turkey**

**Description:** fragment of DNA for relative quantification to be used with BIOPREMIER SUPREME Real Time Detection Kit\*.

Contents	Units	Composition
DNA Standard (10%) 🔿	1 x 700 µL	DNA standard and storage buffer

Format: 1 unit (ref: BIOPDNA-0011)

\*SUPREME Real Time Detection Kit (ref: BIOPSFS-0011 - sold separately)





#### **Our Extraction & Purification kits:**

- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



#### **DNA Blood kit**

#### Specifications:

- Silica membrane technology with MiniSpin columns.
- ✓ No organic extraction or alcohol precipitation.
- ✓ Typical yield: 4-6 µg genomic DNA.
- ✓ Elution volume: 50-200 µL.

#### **Applications:**

- ✓ DNA extracted from whole blood, serum, plasma, buffy coat, platelets, body fluids, dried blood spots.
- ✓ High quality DNA with complete removal of contaminants and inhibitors obtained that can be directly used in PCR, real-time PCR, Southern, any enzymatic reaction, cloning, etc.

Format: 50 preps (ref: BIOPEXT-0606.50) 250 preps (ref: BIOPEXT-0606.250)







#### **Our Extraction & Purification kits:**

- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



#### **DNA Food kit**

#### **Specifications:**

- Silica Membrane Technology using MiniSpin columns.
- ✓ Sample size: up to 200 mg.
- Simultaneous extraction of microbial DNA and host DNA.

#### Applications:

- ✓ DNA extracted from food/stool and complex matrices (e.g.: soy, chocolat, cereals, meat, animal feed and processed food).
- Detection of genetically modified material in food products.
- Detection of specific DNA in animal feed and genetic modified material in food products.
- ✓ DNA suitable for PCR, real-time PCR, enzymatic reaction.

Format: 50 preps (ref: BIOPEXT-0609.50) 250 preps (ref: BIOPEXT-0609.250)







#### **Our Extraction & Purification kits:**

- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



#### **DNA Microbial kit - Bead Beating**

#### Specifications:

- Silica-membrane technology with MiniSpin columns.
- Bead Microtubes coupled with liquid Proteinase K, for efficient lysis.
- ✓ Typical yield: approx. 5-25 µg depending on sample type.
- ✓ Preparation Time: 35 min.
- ✓ Elution volume: 100 µL.
- Sample material: 1.5 mL culture up to 50 mg wet weight cell pellet.



#### **Applications:**

- ✓ Total DNA from microbial cultures.
- ✓ Designed for rapid purification of highly pure genomic DNA from microorganisms (Gram + or Gram - bacteria, yeast and fungi).
- ✓ Typical downstream applications: PCR, real-time PCR, southern blotting, enzymatic reactions.

Format: 50 preps (ref: BIOPEXT-0619.50)




- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



### **DNA Plant kit**

### Specifications:

- Silica Membrane Technology using MiniSpin columns.
- Contains two optimized lysis buffers and PVP solution.
- ✓ High-purity DNA: typical A<sub>260</sub>/A<sub>280</sub> ratio 1.6 1.9.
- ✓ Plant genomic DNA isolated in 30 minutes.

### **Applications:**

- ✓ Isolation of genomic DNA from: fresh/frozen/lyophilized plant tissue and fungi.
- ✓ Isolated DNA is ready for downstream applications such as PCR, real-time PCR, genotyping and Next generation sequencing.

Format: 50 preps (ref: BIOPEXT-0611.50) 250 preps (ref: BIOPEXT-0611.250)







- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



### **DNA Rapid Extraction Buffer**

### Specifications:

- ✓ Suitable for bacterial and yeast DNA extraction.
- ✓ Lysis occurs by thermal shock.
- ✓ Supernatant is ready for real-time PCR reactions.
- ✓ Fast extraction 20 min.

#### **Applications:**

- ✓ Bacterial DNA Extraction: From food, water, feed, etc..
- ✓ Yeast DNA Extraction: With the additional use of lyticase for beverage samples (not included).
- Suitable for microbiology laboratories and quality control processes.

Format: 100 preps (ref: BIOPEXT-0400.100) 250 preps (ref: BIOPEXT-0400.250)







- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



### **DNA Tissue Genomic kit**

#### Specifications:

- MicroSpin columns with glass fiber membrane technology.
- ✓ Typical yield: 20- 35 µg genomic DNA.
- ✓ Binding capacity: 60 µg.
- ✓ Elution volume: 50-200 µL.

#### Applications:

- ✓ DNA extraction from whole blood, buffy coat, tissue, cells, mouse tail, yeasts, bacteria (Gram + or Gram -).
- ✓ High quality DNA with complete removal of contaminants and inhibitors obtained that can be directly used in PCR, real-time PCR, Southern, any enzymatic reaction, cloning, etc.

Format: 50 preps (ref: BIOPEXT-0605.50) 250 preps (ref: BIOPEXT-0605.250)







- DNA Blood kit
- DNA Food kit
- DNA Microbial kit Bead Beating
- DNA Plant kit
- DNA Rapid Extraction Buffer
- DNA Tissue Genomic kit
- RNA Viral kit



### **RNA Viral kit**

### Specifications:

- Silica-membrane technology with MiniSpin columns.
- ✓ No organic extraction or alcohol precipitation.
- Complete removal of contaminants and inhibitors.

#### Applications:

- RNA extracted from serum, plasma, cell-free biological fluids.
- ✓ Rapid isolation of high-quality, ready-to-use viral RNA for downstream applications such as real-time PCR.

Format: 100 preps (ref: BIOPEXT-0613.100)





# For requests or inquiries, please contact: <a href="mailto:sales.support@biopremier.com">sales.support@biopremier.com</a>

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