

# BIOPREMIER Brand Catalog

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## 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



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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 - <i>eae</i>	●	1 x 105 µL
Assay Mix - <i>vtx1</i>	●	1 x 105 µL
Assay Mix - <i>vtx2</i>	●	1 x 105 µL
Negative Control	○	1 x 105 µL
Positive Control	●	1 x 105 µL



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## 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, O103, 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



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## 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 	1 x 175 µL
Positive Control 	1 x 175 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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)

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



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## 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 $\mu$ L
Assay Mix - <i>V. cholerae</i>	●	1 x 210 $\mu$ L
Assay Mix - <i>V. parahaemolyticus</i>	●	1 x 210 $\mu$ L
Assay Mix - <i>V. vulnificus</i>	●	1 x 210 $\mu$ L
Negative Control	○	1 x 70 $\mu$ L
Positive Control	●	1 x 70 $\mu$ L



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## 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:**  $10^3$ - $10^4$  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)

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



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## 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:**  $10^3$ - $10^4$  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)

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



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## 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)

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



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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:**  $10^2$ - $10^3$  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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	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)

Contents		Units
Master Mix	●	4 x 840 µL
Assay Mix - P-35S	●	1 x 210 µL
Assay Mix - T-NOS	●	1 x 210 µL
Negative Control	○	1 x 140 µL
Positive Control	●	1 x 140 µL



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## 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



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## Real Time PCR Detection Kit Pecan Walnut

**Description:** enables detection of Pecan walnut (*Carya illinoensis*) 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



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## 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	○	1 x 70 µL
Positive Control	●	1 x 70 µL



# Our Real Time PCR Detection kits:

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





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## 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)

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



# Our Real Time PCR Detection kits:

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



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## 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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	●	1 x 220 µL
Negative Control	○	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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL





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## 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	●	1 x 220 µL
Negative Control	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	○	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



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## 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: BIOPDFS-sp058)  
100 reactions (ref: BIOPDFS-058)

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

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



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## 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	○	1 x 130 µL
Positive Control	●	1 x 130 µL



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## 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	○	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**



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## 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)



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## 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)





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## 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)



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## 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)



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## 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)



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## 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)



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## 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)



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## 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)



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## 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)





## 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



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## DNA Blood kit

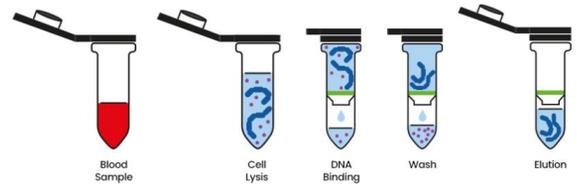
### Specifications:

- ✓ Silica membrane technology with MiniSpin columns.
- ✓ No organic extraction or alcohol precipitation.
- ✓ Typical yield: 4- 6  $\mu\text{g}$  genomic DNA.
- ✓ Elution volume: 50-200  $\mu\text{L}$ .

### 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



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## DNA Food kit

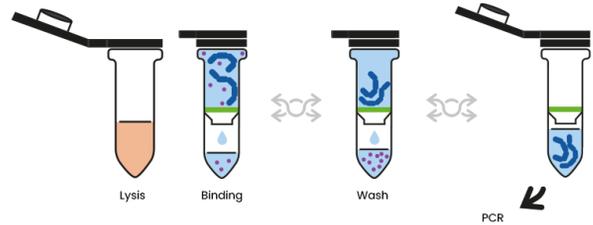
### Specifications:

- ✓ 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



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## DNA Microbial kit - Bead Beating

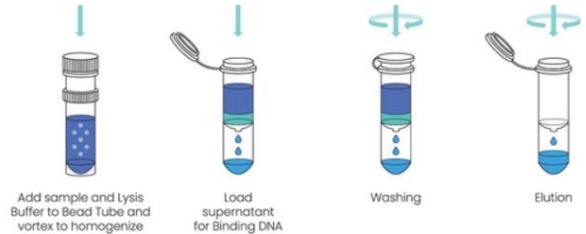
### Specifications:

- ✓ 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)



## 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



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## DNA Plant kit

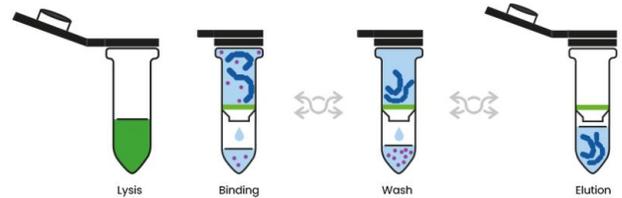
### Specifications:

- ✓ Silica Membrane Technology using MiniSpin columns.
- ✓ Contains two optimized lysis buffers and PVP solution.
- ✓ High-purity DNA: typical  $A_{260}/A_{280}$  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)



## 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





## 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



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## DNA Tissue Genomic kit

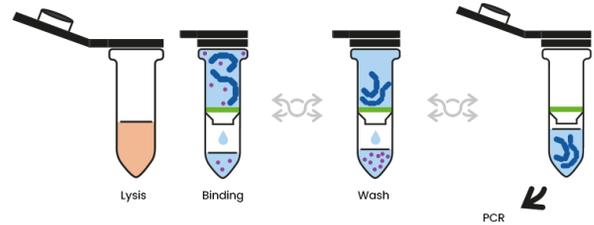
### Specifications:

- ✓ 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)



## 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**



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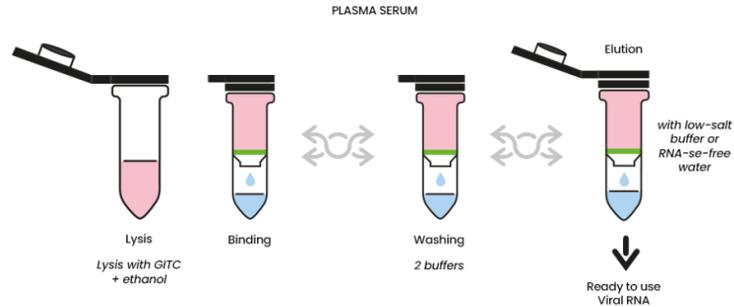
## RNA Viral kit

### 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)



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