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SUBJECT **New version of Raw Materials Catalogue**

Dear Customer,

As you all know, Biokit does not only produces final kits but also manufactures most of the key antigens and antibodies that uses in its own processes.

We are including herewith the newest version of our Raw Materials catalogue where you find :

- Natural antigens
- Recombinant antigens
- Purified Antibodies
- Sera

In the catalogue, you find the Technichal specifications of every material. These materials can be used either for R & D groups – in Research centers, Universities or private companies – as well as other manufacturers.

In case it will be of your interest, don't hesitate to contact to our Sales & Marketing Department.





PRODUCT LIST

RAW MATERIALS

bioKit

2005

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APRIL 2005
BIOKIT, S.A.

A CH-Werfen Company

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HEPATITIS B SURFACE ANTIGEN (HBsAg) ad subtype**SPECIFICATIONS:**

Catalogue No.: 3000-5201 (1 mg/vial).
3000-5200 (packaging available upon request).

Selling unit: mg.

Source: Human plasma.

Subtype: ad.

Form: HBsAg in phosphate buffered saline pH 7.4.

Purification: Three ultracentrifugation steps.

Purity: 1- Silver stained SDS-PAGE under reducing conditions reveals two major bands corresponding to p24 and gp27. Bands corresponding to pre-S proteins, dimers, and 69 kD protein are also detected.

2- 20 nm spherical particles were detected by electron microscopy, as well as rod particles in some lots. Complete virions (Dane particles, 42 nm) were not observed (done initially when the protocol was established).

Protein concentration: 2-3 mg/ml (OD₂₈₀/3.726).

Preservative: No preservative added.

Inactivation: Heat inactivated after purification (10 hours at 60°C). Although inactivated handle with appropriate precautions.

HIV 1/2-Ab and HCV-Ab tests: The human plasma units used as starting material have been found non-reactive for HIV 1/2 and HCV antibodies using a FDA approved assay.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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HEPATITIS B SURFACE ANTIGEN (HBsAg) ay subtype**SPECIFICATIONS:**

Catalogue No.: 3000-5199 (1 mg/vial).
3000-5198 (packaging available upon request).

Selling unit: mg.

Source: Human plasma.

Subtype: ay.

Form: HBsAg in phosphate buffered saline pH 7.4.

Purification: Three ultracentrifugation steps.

Purity: 1- Silver stained SDS-PAGE under reducing conditions reveals two major bands corresponding to p24 and gp27. Bands corresponding to pre-S proteins, dimers, and 69 kD protein are also detected.

2- 20 nm spherical particles were detected by electron microscopy, as well as rod particles in some lots. Complete virions (Dane particles, 42 nm) were not observed (done initially when the protocol was established).

Protein concentration: 2-3 mg/ml (OD₂₈₀/3.726).

Preservative: No preservative added.

Inactivation: Heat inactivated after purification (10 hours at 60°C). Although inactivated handle with appropriate precautions.

HIV 1/2-Ab and HCV-Ab tests: The human plasma units used as starting material have been found non-reactive for HIV 1/2 and HCV antibodies using a FDA approved assay.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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RUBELLA ANTIGEN HIGHLY PURIFIED (Grade A)**SPECIFICATIONS:**

Catalogue No.: 3000-5202 (1 mg/vial).
3000-5204 (packaging available upon request).

Selling unit: mg.

Source: Tissue culture.
Virus Strain: HPV-77.
Host: Vero cells (african green monkey kidney).

Buffer used: Rubella antigen in approx. 20% sucrose / 0.02% SDS / NTE buffer.

Purification: Purified by ultracentrifugation.

Purity: > 90%. The three major bands standard for Rubella antigen are detected by SDS-PAGE.

Protein concentration: 0.5-1.5 mg/ml (modified Warburg-Christian method).

Specific antigenic activity: > 1000 EU/mg (measured by an "in house" capture ELISA).

Preservative: No preservative added.

Inactivation: Inactivated by detergent treatment (0.02% SDS). Although inactivated handle with appropriate precautions.

Storage: Frozen (-70°C). Avoid repeated freezing and thawing.

RUBELLA ANTIGEN HIGHLY PURIFIED (Grade B)**SPECIFICATIONS:**

Catalogue No.: 3000-5203 (1 mg/vial).
3000-5205 (packaging available upon request).

Selling unit: mg.

Source: Tissue culture.
Virus Strain: HPV-77.
Host: Vero cells (african green monkey kidney).

Buffer used: Rubella antigen in approx. 40% sucrose / 0.02% SDS / NTE buffer.

Purification: Purified by ultracentrifugation.

Purity: > 90%. The three major bands standard for Rubella antigen are detected by SDS-PAGE.

Protein concentration: 0.1-0.5 mg/ml (modified Warburg-Christian method).

Specific antigenic activity: > 600 EU/mg (measured by an "in house" capture ELISA).

Preservative: No preservative added.

Inactivation: Inactivated by detergent treatment (0.02% SDS). Although inactivated handle with appropriate precautions.

Storage: Frozen (-70°C). Avoid repeated freezing and thawing.

PURIFIED TOXOPLASMA GONDII ANTIGEN SUSPENSION (Grade I)**SPECIFICATIONS:**

Catalogue No.: 3000-5237 (2 ml/vial).

Selling unit: ml.

Source: Intraperitoneal exudates from infected mice.

Strain: RH.

Form: Formalin treated *Toxoplasma gondii* suspension in phosphate buffered saline pH 7.2.

Concentration: 75-95 x 10⁶ tox/ml. Other concentrations are available.

Purity: > 100 tox/cel.

Preservative: 0.1 % sodium azide and 0.2% formalin.

Storage: 2-8°C.

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PURIFIED TOXOPLASMA GONDII ANTIGEN SUSPENSION (Grade II)**SPECIFICATIONS:**

Catalogue No.: 3000-5236 (2 ml/vial).

Selling unit: ml.

Source: Intraperitoneal exudates from infected mice.

Strain: RH.

Form: Formalin treated *Toxoplasma gondii* suspension in phosphate buffered saline pH 7.2.

Concentration: 75-95 x 10⁶ tox/ml. Other concentrations are available.

Purity: > 200 tox/cel.

Preservative: 0.1% sodium azide and 0.2% formalin.

Storage: 2-8°C.

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TOXOPLASMA GONDII SOLUBLE ANTIGEN**SPECIFICATIONS:**

Catalogue No.: 3000-5206 (1 ml/vial).
3000-5207 (packaging available upon request).

Selling unit: ml.

Source: Intraperitoneal exudates from infected mice.

Strain: RH.

Form: Ultrasonically disrupted *Toxoplasma gondii* suspension in distilled water. The purity of the original material is higher than 100 toxoplasmas per cell.

Protein concentration: 4-8 mg/ml (Biuret method).

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

Handling: Sonication is recommended prior to use.

TOXOPLASMA GONDII SOLUBLE ANTIGEN (TREATED)**SPECIFICATIONS:**

Catalogue No.: 3000-5256 (1 ml/vial).
3000-5252 (packaging available upon request).

Selling unit: ml.

Source: Intraperitoneal exudates from infected mice.

Strain: RH.

Form: Detergent treated *Toxoplasma gondii* suspension. The purity of the original material is higher than 100 toxoplasmas per cell.

Protein concentration: 2-8 mg/ml (Biuret method).

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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TREPONEMA PALLIDUM ANTIGEN SUSPENSION**SPECIFICATIONS:**

Catalogue No.: 3000-5234 (1 ml/vial).
3000-5235 (packaging available upon request).

Selling unit: ml.

Source: Testicular culture in rabbit.

Strain: Nichols.

Form: *Treponema pallidum* antigen suspension in phosphate buffered saline pH 7.2.

Purification: Differential centrifugation.

Concentration: 2-4 x 10⁹ Tp/ml.

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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TREPONEMA PALLIDUM SOLUBLE ANTIGEN**SPECIFICATIONS:**

Catalogue No.: 3000-5238 (1 ml/vial).
3000-5255 (packaging available upon request).

Selling unit: ml.

Source: Testicular culture in rabbit.

Strain: Nichols.

Form: Ultrasonically disrupted *Treponema pallidum* suspension in phosphate buffered saline pH 7.2.

Purification: Differential centrifugation.

Protein concentration: 2-4 mg/ml (Lowry method).

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

Handling: Sonication is recommended prior to use.

SEMIPURIFIED gG2 PROTEIN OF HSV-2**SPECIFICATIONS:**

Catalogue No.: 3000-5249 (0.2 ml/vial).
3000-5241 (packaging available upon request).

Selling unit: ml.

Source: Vero cells infected with HSV-2 (Lovelace strain).

Buffer used: Tris-HCl buffered saline pH 8.0.

Purification: Affinity chromatography.

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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STREPTOLYSIN 0 PURIFIED**SPECIFICATIONS:**

Catalogue No.: 3000-5208 (25 ml/vial).

Selling unit: ml.

Source: Supernatant of group A *Streptococcus pyogenes* culture.

Form: Solution.

Protein concentration: < 30 mg/ml (OD₂₈₀).

Total antigenic activity (internal indirect method): > 1500 IU/ml.

Specific antigenic activity: > 50 IU/mg of protein.

Preservative: No preservative added.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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CMV ANTIGEN**SPECIFICATIONS:**

Catalogue No.: 3000-5260 (packaging available upon request).

Selling unit: mg.

Source: Tissue culture.
Virus Strain: AD-169.
Host: Human foreskin cells.

Form: CMV antigens from all virus cycle replication in NTE buffer pH 8.0. Contains residual host cellular material.

Protein concentration: 0.4-0.7 mg/ml (modified Warburg-Christian method).

Preservative: No preservative added.

Inactivation: Detergent inactivated (0.015% SDS). Although inactivated handle with appropriate precautions.

Infectivity assay: After 15 days of incubation on a monolayer of Human foreskin cells, no cytopathic effect (CPE) must be observed.

Storage: Frozen (-70°C). Avoid repeated freezing and thawing.

Handling: Sonication is recommended prior to use.

RECOMBINANT gG1 PROTEIN OF HSV-1**SPECIFICATIONS:**

Catalogue No.: 3000-5248 (0.2 ml/vial).
3000-5240 (packaging available upon request).

Selling unit: ml.

Source: Baculovirus infected Sf9 cells.

Buffer used: Tris-HCl buffered saline pH 8.0.

Purification: Affinity chromatography.

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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RECOMBINANT HEPATITIS B CORE ANTIGEN (rHBcAg)**SPECIFICATIONS:**

Catalogue No.: 3000-5100 (1 mg/vial).
3000-5102 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Form: rHBcAg in phosphate buffered saline pH 7.4.

Purification: Purified by ultracentrifugation.

Purity:

- 1- A major high molecular weight peak is obtained by gel filtration through Superose 6. Some minor peaks of low molecular weight can be observed.
- 2- Silver stained SDS-PAGE under reducing conditions reveals a main 23 kD band and several other bands.
- 3- A major band at about 23 kD and a minor band at 40 kD were detected by Western blot using IgG from rabbit immunized with HBcAg from liver of HBV infected chimpanzee (done initially when the protocol was established).
- 4- Round particles of about 30 nm in diameter were detected using immunoelectron microscopy with human anti-HBc (done initially when the protocol was established).

Protein concentration: 0.2-1.0 mg/ml (Lowry method).

Preservative: No preservative added.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

PURIFIED RECOMBINANT p15 TREPONEMA PALLIDUM**SPECIFICATIONS:**

Catalogue No.: 3000-5245 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Buffer used: Tris-HCl buffered saline pH 8.0.

Purification: Affinity chromatography.

Protein concentration: 2-5 mg/ml (Bradford method).

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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PURIFIED RECOMBINANT p17 TREPONEMA PALLIDUM**SPECIFICATIONS:**

Catalogue No.: 3000-5244 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Buffer used: Tris-HCl buffered saline pH 8.0.

Purification: Affinity chromatography.

Protein concentration: 2-5 mg/ml (Bradford method).

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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PURIFIED RECOMBINANT H-p15 TREPONEMA PALLIDUM**SPECIFICATIONS:**

Catalogue No.: 3000-5253 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Buffer used: 10 mM Tris-HCl pH 8.0, 300 mM NaCl.

Purification: Metal affinity chromatography.

Protein concentration: 2-5 mg/ml (OD₂₈₀ x 1.12).

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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PURIFIED RECOMBINANT H-p17 TREPONEMA PALLIDUM**SPECIFICATIONS:**

Catalogue No.: 3000-5254 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Buffer used: 10 mM Tris-HCl pH 8.0, 300 mM NaCl.

Purification: Metal affinity chromatography.

Protein concentration: 2-5 mg/ml (OD₂₈₀ x 1.38).

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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PURIFIED RECOMBINANT STREPTOLYSIN-O**SPECIFICATIONS:**

Catalogue No.: 3000-5258 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Buffer used: Tris-HCl buffered saline pH 8.5.

Purification: Metal affinity chromatography.

Protein concentration: 2-4 mg/ml (OD₂₈₀ x 0.79).

Total antigenic activity (internal indirect method): > 4000 IU/ml.

Specific antigenic activity: > 1500 IU/mg of protein.

Preservative: No preservative added.

Storage: Frozen (-70°C), (-20°C short term). Avoid repeated freezing and thawing.

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PURIFIED AND STABILIZED RECOMBINANT STREPTOLYSIN-O**SPECIFICATIONS:**

Catalogue No.: 3000-5259 (packaging available upon request).

Selling unit: mg.

Source: Transformed *E. coli*.

Buffer used: Tris-HCl buffered saline pH 8.2.

Purification: Metal affinity chromatography.

Protein concentration: 1-2 mg/ml [(OD₂₈₀ - OD₃₂₀) x 0.69].

Total antigenic activity (internal indirect method): > 2500 IU/ml.

Specific antigenic activity: > 1250 IU/mg of protein.

Preservative: < 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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ANTI-HBsAg RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5505 (5 mg/vial).
3000-5506 (packaging available upon request).

Selling unit: mg.

Source: Serum of rabbits hyperimmunized with highly purified HBsAg (ad + ay).

Purification: Immunoaffinity chromatography.

Purity: Electrophoresis shows only two bands.

Specificity: Reacts with all "a" subtypes.

Protein concentration: 1-4 mg/ml (OD₂₈₀ x 0.71).

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeat freezing and thawing.

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ANTI-HBsAg GOAT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5501 (5 mg/vial).

Selling unit: mg.

Source: Serum of goats hyperimmunized with highly purified HBsAg (ad + ay).

Purification: Immunoaffinity chromatography.

Purity: Immunoelectrophoresis showing only one band.

Specificity: Reacts with all "a" subtypes.

Protein concentration: 1-3 mg/ml (OD₂₈₀ x 0.71).

Preservative: No preservative added.

Storage: Frozen (-20°C). Avoid repeat freezing and thawing.

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ANTI-rHBcAg RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5527 (5 mg/vial).
3000-5528 (packaging available upon request).

Selling unit: mg.

Source: Serum of rabbits hyperimmunized with rHBcAg.

Purification: Ammonium sulphate precipitation followed by ion exchange chromatography.

Purity: Immunoelectrophoresis shows only one band.

Protein concentration: 5-15 mg/ml (OD₂₈₀ x 0.71).

Preservative: 0.05% chlorethone.

Storage: Frozen (-20°C). Avoid repeat freezing and thawing.

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ANTI-STREPTOLYSIN O RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5000 (1 ml/vial).

Selling unit: ml.

Source: Serum of rabbits hyperimmunized with purified Streptolysin O.

Purification: Ammonium sulphate precipitation.

Titer using a latex reagent of 200 IU/ml of anti-streptolysin O detection: $\geq 1:16$ dilution.

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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E-mail: biokit@biokit.com / www.biokit.com

ANTI-TREPONEMA PALLIDUM RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5529 (1 ml/vial).

Selling unit: ml.

Source: Serum of rabbits hyperimmunized with *Treponema pallidum*.

Purification: Ammonium sulphate precipitation.

Titer using RPR antigen: $\geq 1:64$ dilution.

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

A CH-Werfen Company

Domicilio Social / Head Office: Can Malé s/n, 08186 Lliçà d'Amunt (Barcelona) Spain

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ANTI-ROTAVIRUS RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5525 (5 mg/vial).
3000-5526 (packaging available upon request).

Selling unit: mg.

Source: Serum of rabbits hyperimmunized with purified Rotavirus.

Purification: Ammonium sulphate precipitation followed by ion exchange chromatography.

Purity: Immunoelectrophoresis shows only one band.

Protein concentration: 5-15 mg/ml (OD₂₈₀ x 0.71).

Preservative: 0.05% chlorethone.

Storage: Frozen (-20°C). Avoid repeat freezing and thawing.

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ANTI-C-REACTIVE PROTEIN RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5530 (5 mg/vial).
3000-5531 (packaging available upon request).

Selling unit: mg.

Source: Serum of rabbits hyperimmunized with purified human C-reactive protein.

Purification: Ammonium sulphate precipitation followed by ion exchange chromatography.

Purity: Immunoelectrophoresis shows only one band.

Protein concentration: 5-15 mg/ml (OD₂₈₀ x 0.71).

Preservative: 0.05% chlorethone.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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ANTI-FERRITIN RABBIT IgG**SPECIFICATIONS:**

Catalogue No.: 3000-5532 (packaging available upon request).

Selling unit: mg.

Source: Serum of rabbits hyperimmunized with purified human ferritin.

Purification: Affinity chromatography.

Purity: $\geq 95\%$ by SDS-PAGE.

Protein concentration: 4-12 mg/ml ($OD_{280} \times 0.71$).

Preservative: No preservative added.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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ANTI-TREPONEMA PALLIDUM RABBIT SERUM**SPECIFICATIONS:**

Catalogue No.: 3000-5239 (packaging available upon request).

Selling unit: ml.

Source: Serum of rabbits hyperimmunized with *Treponema pallidum*.

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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ANTI-ROTAVIRUS RABBIT SERUM**SPECIFICATIONS:**

Catalogue No.: 3000-5096 (packaging available upon request).

Selling unit: ml.

Source: Serum of rabbits hyperimmunized with purified Rotavirus.

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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ANTI-HBsAg GOAT SERUM**SPECIFICATIONS:**

Catalogue No.: 3000-5097 (packaging available upon request).

Selling unit: ml.

Source: Serum of goat hyperimmunized with highly purified HBsAg (ad +ay).

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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ANTI-HBsAg RABBIT SERUM**SPECIFICATIONS:**

Catalogue No.: 3000-5098 (packaging available upon request).

Selling unit: ml.

Source: Serum of rabbits hyperimmunized with highly purified HBsAg (ad +ay).

Preservative: 0.1% sodium azide.

Storage: Frozen (-20°C). Avoid repeated freezing and thawing.

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