



SPA – Società Prodotti Antibiotici S.p.A.

Via Biella, 8 – 20143 Milano – Tel. +390289139.1 - Fax +39028132983

Cap. Soc. €3.120.000 int. Vers. – Reg. Imprese C.C.I.A.A. MI N° 00747030153 – REA 360641

Cod. Fisc. P. IVA 00747030153 - sito web: <https://spafarma.com/biospa/> - email: biospa@spafarma.com

SISTEMA DI GESTIONE
QUALITÀ CERTIFICATO

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Certificato n. 3487

BIOSPA

STREPT/AVIDIN-BIOTIN System Products

PRODUCT LIST 2021



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AVIDIN-STREPTAVIDIN-BIOTIN SYSTEM PRODUCTS

	PRODUCT DESCRIPTION	CODE	size
NATIVE AVIDIN	From egg white. Basic protein, made up of 4 identical subunits, each bearing a binding site for biotin. Isoelectric point = approx 10.5. Lyophilized powder.	A001-61	mg 10
		A001-62	mg 50
		A001-63	mg 100

MODIFIED AVIDIN - Chemically modified avidin with an isoelectric point lower than that of the native protein: avidin has been reacted with an acidic anhydride to obtain a N-acyl derivative. Aspecific binding to negatively charged macromolecules is abolished.

	PRODUCT DESCRIPTION	CODE	size
AVIDIN-ACETYL	Avidin has been reacted with acetic anhydride to obtain a N-acyl derivative. Lyophilized powder.	A002-61	mg 10
		A002-62	mg 50
		A002-63	mg 100

	PRODUCT DESCRIPTION	CODE	size
STREPTAVIDIN	Streptavidin is a protein produced by the bacterium <i>Streptomyces avidinii</i> and isolated from fermentation filtrates. The protein is made up of 4 identical subunits, each bearing a binding site for biotin. Isoelectric point = approx 7.0 Lyophilized powder.	S002-60	mg 1
		S002-61	mg 5
		S002-62	mg 10



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Reagents for **BIOTINYLATION** of proteins:

	PRODUCT DESCRIPTION	CODE	size
BIOTIN-NHS or N-HYDROXSUCCINI- MIDO-BIOTIN	Prepared by activation of the carboxyl group of biotin. The activated ester reacts with amino-groups of proteins and other organic compounds. Molecular weight = 341.4 Cristalline powder.	B001-61	mg 50
		B001-62	mg 100
		B001-63	mg 500
AH-BIOTIN-NHS	A modified activated biotin. In order to minimize the steric hindrance between avidin or streptavidin and biotinylated molecules, an aminocaproyl “spacer arm” has been introduced between biotin and the activated carboxyl group. Molecular weight = 454.5 Crystalline powder.	B002-61	mg 25
		B002-62	mg 50
		B002-63	mg 100
2X AH-BIOTIN-NHS	A modified activated biotin. In order to minimize the steric hindrance between avidin or streptavidin and biotinylated molecules, a <u>double</u> aminocaproyl “spacer arm” has been introduced between biotin and the activated carboxyl group. Molecular weight = 567.7 Crystalline powder.	B012-61	mg 25
		B012-62	mg 50
		B012-63	mg 100

BIOTINYLATED ENZYMES

Stabilized buffered solution.

	PRODUCT DESCRIPTION	CODE	size
SOLUTIONS	HORSERADISH PEROXIDASE Stabilized 1 mg/ml solution.	C001-61	ml 1
	ALKALINE PHOSPHATASE Stabilized 1 mg/ml solution.	F002-61	ml 1



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BIOTINYLATED SECONDARY ANTIBODIES

Stabilized buffered solution.

	PRODUCT DESCRIPTION	CODE	size
GOAT ANTI-MOUSE IgG	The antibody has been put through solid-phase immunoabsorbent gels to remove antibodies which cross-react with human, bovine and horse serum proteins. Stabilized 0.5 mg/ml solution.	M001-61	ml 1
		M001-62	ml 0,5
GOAT ANTI-RABBIT IgG	The antibody has been put through solid-phase immunoabsorbent gels to remove antibodies which cross-react with human serum proteins. Stabilized 0.5 mg/ml solution.	R001-61	ml 1
		R001-62	ml 0,5
GOAT ANTI-MOUSE & RABBIT IgG, BIVALENT	The antibody has been put through solid-phase immunoabsorbent gels to remove antibodies which cross-react with human serum proteins. Stabilized 0.75 mg/ml solution.	MR01-61	ml 1
		MR01-62	ml 0,5
Suggested dilution:		Immunohistochemistry	1: 50
		ELISA	1:1500
		Immunoblotting	1: 500
			1: 400
			1:7000
			1:1500

STREPTAVIDIN CONJUGATES

For detection of biotinylated probes.

Stabilized buffered stock solutions.

	PRODUCT DESCRIPTION	CODE	size
SOLUTIONS	STREPTAVIDIN-HRP	SB01-61	ml 1
	STREPTAVIDIN-AP	SF01-61	ml 1
Suggested dilution:		Immunohistochemistry	1: 100
		ELISA	1:1000
		Immunoblotting	1: 500
			1:500
			1:10000
			1: 5000



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PRE-FORMED STREPT/AVIDIN:BIOTINYLATED-HORSERADISH PEROXIDASE COMPLEXES

For detection of biotinylated probes. Stabilized buffered stock solution.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	with AVIDIN-ACETYL Pre-formed complex of modified avidin and biotinylated peroxidase in matched amount.	G011-61	ml 1
		G011-62	ml 0,5
	with STREPTAVIDIN Pre-formed complex of streptavidin and biotinylated peroxidase in matched amount.	G014-61	ml 1
		G014-62	ml 0,5
	Suggested dilution:	Immunohistochemistry ELISA Immunoblotting	1: 250 1:1000 - 1:10000 1: 500 - 1: 5000

**Biotinylated goat ANTI-MOUSE IgG,
+ HORSERADISH PEROXIDASE complexes normal goat serum**

Stabilized stock solutions – IMMUNOHISTOCHEMISTRY KITS.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	Biotinylated secondary antibody and ACETYL-AVIDIN:HRP complex	GM11-61	ml 1
		GM11-62	ml 0,5
	Biotinylated secondary antibody and STREPTAVIDIN:HRP complex	GM14-61	ml 1
		GM14-62	ml 0,5
	Suggested dilution for immunohistochemistry	1: 250	

**Biotinylated goat ANTI-RABBIT IgG,
+ HORSERADISH PEROXIDASE complexes + normal goat serum**

Stabilized stock solutions – IMMUNOHISTOCHEMISTRY KITS.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	Biotinylated secondary antibody and ACETYL-AVIDIN:HRP complex	GR11-61	ml 1
		GR11-62	ml 0,5
	Biotinylated secondary antibody and STREPTAVIDIN:HRP complex	GR14-61	ml 1
		GR14-62	ml 0,5
	Suggested dilution for immunohistochemistry	1: 250	

**Biotinylated goat ANTI-MOUSE&RABBIT IgG,
+ HORSERADISH PEROXIDASE complexes + normal goat serum**

Stabilized stock solutions – IMMUNOHISTOCHEMISTRY KITS.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	Biotinylated secondary antibody and ACETYL-AVIDIN:HRP complex	GMR1-61	ml 1
		GMR1-62	ml 0,5
	Biotinylated secondary antibody and STREPTAVIDIN:HRP complex	GMR4-61	ml 1
		GMR4-62	ml 0,5
	Suggested dilution for immunohistochemistry	1: 250	



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PRE-FORMED STREPT/AVIDIN:BIOTINYLATED-ALKALINE PHOSPHATASE COMPLEXES

For detection of biotinylated probes. Stabilized buffered stock solution.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	with AVIDIN-ACETYL Pre-formed complex of modified avidin and biotinylated alkaline phosphatase in matched amount.	F011-61	ml 0,625
		F011-62	ml 0,315
	with STREPTAVIDIN Pre-formed complex of streptavidin and biotinylated alkaline phosphatase in matched amount.	F014-61	ml 0,625
		F014-62	ml 0,315
Suggested dilution: Immunohistochemistry		1: 200	
ELISA		1: 800	- 1:8000
Immunoblotting		1: 400	- 1:4000

Biotinylated goat ANTI-MOUSE IgG

+ ALKALINE PHOSPHATASE COMPLEXES + normal goat serum

Stabilized stock solutions – IMMUNOHISTOCHEMISTRY KITS.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	Biotinylated secondary antibody and ACETYL-AVIDIN:AP complex	FM11-61	ml 0,625
		FM11-62	ml 0,315
	Biotinylated secondary antibody and STREPTAVIDIN:AP complex	FM14-61	ml 0,625
		FM14-62	ml 0,315
Suggested dilution for immunohistochemistry		1: 200	

Biotinylated goat ANTI-RABBIT IgG

+ ALKALINE PHOSPHATASE COMPLEXES + normal goat serum

Stabilized stock solutions – IMMUNOHISTOCHEMISTRY KITS.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	Biotinylated secondary antibody and ACETYL-AVIDIN:AP complex	FR11-61	ml 0,625
		FR11-62	ml 0,315
	Biotinylated secondary antibody and STREPTAVIDIN:AP complex	FR14-61	ml 0,625
		FR14-62	ml 0,315
Suggested dilution for immunohistochemistry		1: 200	

Biotinylated goat ANTI-MOUSE & RABBIT IgG

+ ALKALINE PHOSPHATASE COMPLEXES + normal goat serum

Stabilized stock solutions – IMMUNOHISTOCHEMISTRY KITS.

SOLUTIONS	PRODUCT DESCRIPTION	CODE	size
	Biotinylated secondary antibody and ACETYL-AVIDIN:AP complex	FMR1-61	ml 0,625
		FMR1-62	ml 0,315
	Biotinylated secondary antibody and STREPTAVIDIN:AP complex	FMR4-61	ml 0,625
		FMR4-62	ml 0,315
Suggested dilution for immunohistochemistry		1: 200	



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READY TO USE SOLUTIONS

Immunohistochemistry kits

Standard packaging contains 10 ml of each solution, enough to prepare 100 slides
(2 drops = 100 µl x slide):

IMMUNOHISTOCHEMISTRY KIT with **Alkaline Phosphatase**

Code: MR*AP-610

Ready to use solutions, **10 ml**:

- 1 - NGS (Normal Goat Serum)
- 2 - Biotinylated second antibody, Goat anti-Mouse&Rabbit IgG, bivalent
- 3 - AP detection system

immunohistochemistry kit with **Horseradish Peroxidase**

Code: MR*HRP-610

Ready to use solutions, **10 ml**:

- 1 - NGS (Normal Goat Serum)
- 2 - Biotinylated second antibody, Goat anti-Mouse&Rabbit IgG, bivalent
- 3 - HRP detection system



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Additional information:

- to download the datasheet for each product you can connect to our website at the following [link:https://spafarma.com/biospa/products/immunodiagnostica/](https://spafarma.com/biospa/products/immunodiagnostica/)
- to ask for a quotation you can write to: nadia.reali@spafarma.com