

Biomaterials Catalog

Antigens & Antibodies Supply

werfen

Werfen is a global, family-owned, diagnostics company focused in providing innovative specialized diagnostic solutions to improve patient healthcare, founded in 1966 in Barcelona, Spain.

Our Immunoassay Technology Center has consolidated experience in research, development and manufacturing of customized assays and biomaterials.

We offer end-to-end solutions for the IVD industry with the most innovative capabilities to enhance competitiveness and time-to-market.

Our mission is to become your partner of choice as a center of excellence in providing innovative end-to-end solutions (products & services) to IVD companies.







Innovation

Our Immunoassay Technology Center ranks among the top centers of excellence for immunoassay and biomaterial development and manufacturing in the industry. Our focus on technological advances ensures our customers access to state-of-the-art R&D and manufacturing capabilities. Werfen's innovative nature is strengthened through close relationships with prestigious universities and biotechnology research centers around the world.

Operational Excellence

Our key strength is the combination of the ongoing effort to improve our organizational processes, products and services with the Werfen mindset that embraces principles and tools to create a sustainable partnership with our customers and employees.
Our Quality System is certified to ISO 13485:2016 / EN ISO 13485:2016, MDSAP and IVDR.

Commitment

Customers and patients benefit from the efficiency of a talented global team of qualified and specialized professionals who lend their enthusiasm, dedication and energy on a daily basis in order to provide high quality products & services.









Biomaterials for the IVD Industry

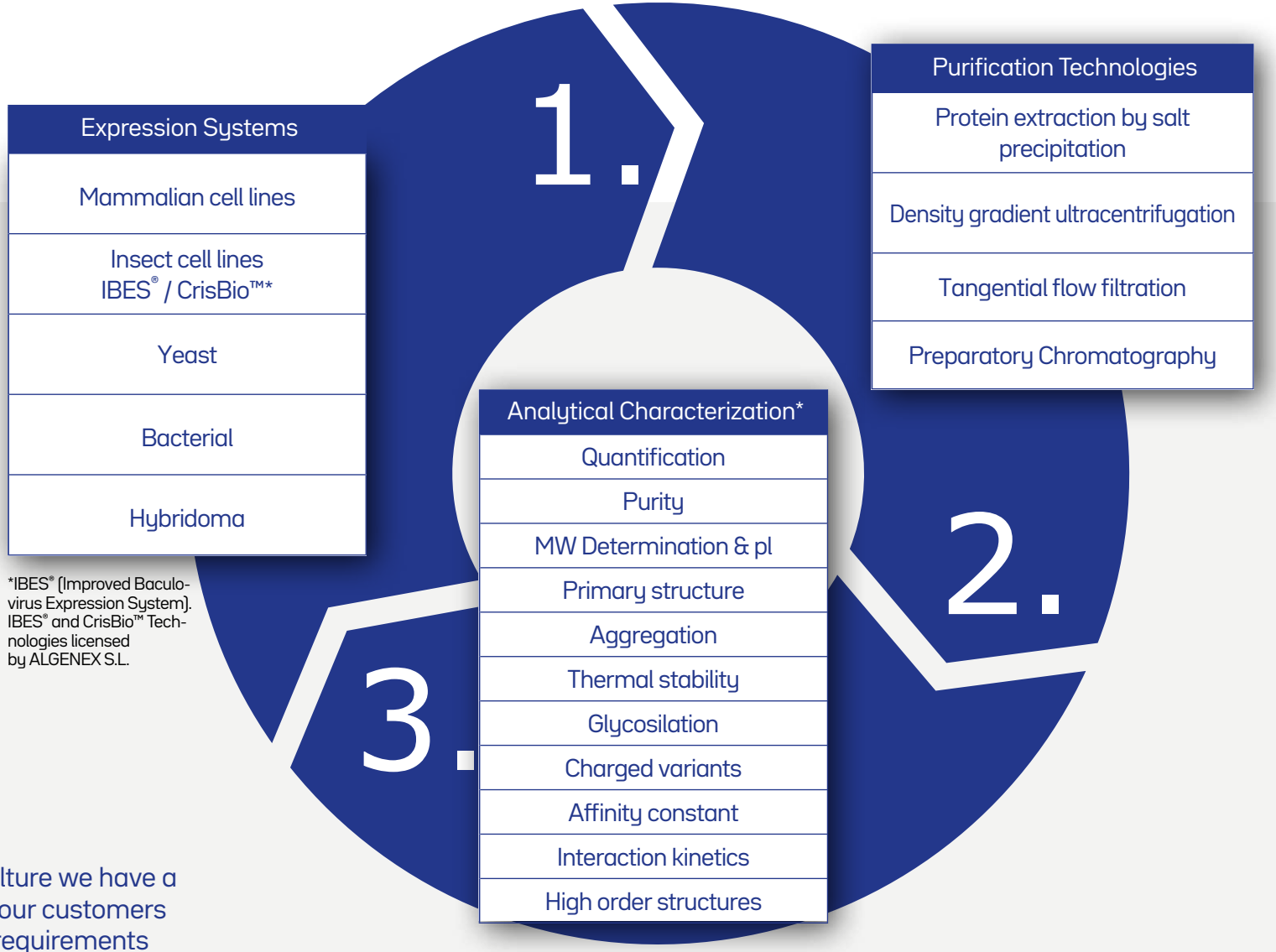
Werfen offers a broad range of biomaterials, including antigens, antibodies, obtained by following validated standards of quality procedures. Those procedures ensure the traceability, reproducibility and robustness of every single product. Our expertise is attested to by more than 200 biomaterials that are being used in diagnostic technologies.

Our know-how in biomaterials is focused on their application in commercial diagnostic assays that provides a low-risk, reliable and highly successful option for our customers to reduce time to market in their developments and secure their operations.

Acronym List

A_{280}	Absorbance at 280 nm
Ab	Antibody
Ag	Antigen
aHBs	Anti-Hepatitis B Surface
ASO	Anti-Streptolysin O
CHO	Chinese Hamster Ovary
CL	Chemiluminescence
ELISA	Enzyme-Linked ImmunoSorbent Assay
GMP	Good Manufacturing Practices
HBV	Hepatitis B Virus
HCV	Hepatitis C Virus
HEPES	N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid
HEV	Hepatitis E Virus
HPLC	High Performance Liquid Chromatography
HTLV	Human T-lymphotropic Virus
IBES	Improved Baculovirus Expression System
IVD	In Vitro Diagnostics
mAb	Monoclonal Antibody
MES	2-(N-morpholino)ethanesulfonic acid
NTE	NaCl-Tris-EDTA buffer
pAb	Polyclonal Antibody
PBS	Phosphate-Buffered Saline
PlGF	Placental Growth Factor
Rec	Recombinant
sFlt-1	Soluble fms-like tyrosine kinase-1

Biomaterials Manufacturing Capabilities



*IBES® (Improved Baculovirus Expression System). IBES® and CrisBio™ Technologies licensed by ALGENEX S.L.

*This table compiles all the available analytical characterization methodologies. Depending on the biomaterial, there are methodologies applied on routine or upon request

Thanks to our partnering culture we have a vast experience of meeting our customers needs and their regulatory requirements in order to commercialize their products worldwide.





Werfen is your partner with state-of-the-art manufacturing capabilities to have the supply of critical biomaterials that cover market needs in a continuous, reliable and low-risk manner securing your operations.

CAPABILITIES

- 38,000 m^2 (409,028 ft^2) facilities of which 10,000 m^2 (107,639 ft^2) are dedicated to production activities
- Extensive manufacturing scale-up capabilities
- Biosafety level 2 laboratories
- Positive and negative pressurized laboratories
- State-of-the-art equipment
- ISO 8 classified areas for production and filling
- Production under GMP's procedures
- Production under Lean Manufacturing
- 5S methodology implemented in all the production areas
- Final QC functional and physicochemical analysis

Biomaterials Applications*

			Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Fertility						
	Monoclonal Antibodies	p. 8				
	Anti-Placental Growth Factor mAb (PGF16M)		●			
	Anti-Placental Growth Factor mAb (PGF03m)		●			
	Anti-sFtl-1 mAb (SFT10m)		●			
	Anti-sFtl-1 mAb (SFT18m)		●			
Inflammation						
	ASO	p. 10				
	Recombinant Antigens					
	Recombinant Streptolysin O				●	●
	Recombinant Streptolysin O Stabilized				●	●
Hepatitis B						
	Recombinant Antigens	p. 12				
	Recombinant HBc Antigen		●	●		
	Recombinant HBsAg ay		●			
	Recombinant HBsAg ad		●			
Hepatitis C						
	Recombinant Antigens	p. 14				
	Recombinant HCV Capsid Polypeptide		●	●		
	Recombinant HCV NS3 Polypeptide			●		
Syphilis						
	Recombinant Antigens	p. 15				
	Recombinant p15 (II) *Treponema pallidum* Ag		●	●		
	Recombinant p17 *Treponema pallidum* Ag		●	●		
	Recombinant p47 *Treponema pallidum* Ag		●	●		
	Recombinant H-p17 *Treponema pallidum* Ag		●	●		
	Recombinant H-p47 *Treponema pallidum* Ag		●	●		
Herpes						
	Recombinant Antigens	p. 18				
	Recombinant gG1 Protein HSV-1		●	●		
	Recombinant gG2 Protein HSV-2		●	●		
Chagas						
	Recombinant Antigens	p. 19				
	Recombinant TcF Antigen		●			

**Please note that this table is merely indicative. Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.*


werfen

Fertility

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Fertility		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Monoclonal Antibodies				
	Anti-Placental Growth Factor mAb (PGF16M)	●			
	Anti-Placental Growth Factor mAb (PGF03m)	●			
	Anti-sFlt-1 mAb (SFT10m)	●			
	Anti-sFlt-1 mAb (SFT18)	●			

Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.

Monoclonal Antibodies

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Product Description	Presentation	Reference	Storage
Anti-Placental Growth Factor mAb (PGF16M)	1 mg/vial	3000-5330	-70°C*
Anti-Placental Growth Factor mAb (PGF16M)	mg/custom size	3000-5329	-70°C*

The information contained in this catalogue is for informational purposes. Contact Immunoassay@werfen.com for further technical information and product availability.
*Avoid repeated freezing and thawing.

Details

Source Hybridoma cell line
Storage Buffer 50 mM MES, 150 mM NaCl, pH 6
Purification Method Protein A
Protein Concentration ≥ 1.00 mg/mL (A_{280})
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-Placental Growth Factor mAb (PGF03m)	1 mg/vial	3000-5332	-70°C*
Anti-Placental Growth Factor mAb (PGF03m)	mg/custom size	3000-5331	-70°C*

The information contained in this catalogue is for informational purposes. Contact Immunoassay@werfen.com for further technical information and product availability.
*Avoid repeated freezing and thawing.

Details

Source Hybridoma cell line
Storage Buffer 50 mM MES, 150 mM, NaCl, pH 6
Purification Method Protein A
Protein Concentration ≥ 1.00 mg/mL (A_{280})
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-sFtl-1 mAb (SFT10m)	1 mg/vial	3000-5334	-70°C*
Anti-sFlt-1 mAb (SFT10m)	mg/custom size	3000-5333	-70°C*

The information contained in this catalogue is for informational purposes. Contact Immunoassay@werfen.com for further technical information and product availability.
*Avoid repeated freezing and thawing.

Details

Source Hybridoma cell line
Storage Buffer 50 mM MES, 150 mM, NaCl, pH 6
Purification Method Protein A
Protein Concentration ≥ 1.00 mg/mL (A_{280})
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-sFlt-1 mAb (SFT18)	1 mg/vial	3000-5336	-70°C*
Anti-sFlt-1 mAb (SFT18)	mg/custom size	3000-5335	-70°C*

The information contained in this catalogue is for informational purposes. Contact Immunoassay@werfen.com for further technical information and product availability.
*Avoid repeated freezing and thawing.

Details

Source Hybridoma cell line
Storage Buffer PBS, pH 7.4
Purification Method Protein G
Protein Concentration ≥ 1.00 mg/mL (A_{280})
Preservative No Preservative Added

Inflammation

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Inflammation		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	ASO				
	Recombinant Antigens				
	Recombinant Streptolysin O			●	●
	Recombinant Streptolysin O Stabilized			●	●

Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.



ASO

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant Streptolysin O	mg/custom size*	3000-5258	-70°C**

*For large quantities, packaging available upon request - minimum size 5 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Source *Escherichia coli*
Storage Buffer Tris-HCl, pH 8.5
Purification Method Metal Affinity Chromatography
Protein Concentration 2.00 - 4.00 mg/mL (A_{280} x 0.79)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant Streptolysin O stabilized	1 mg/mL	3000-5311	-70°C**
Recombinant Streptolysin O stabilized	mg/custom size*	3000-5259	-70°C**

*For large quantities, packaging available upon request - minimum size 5 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Source *Escherichia coli*
Storage Buffer Tris-HCl, pH 8.2
Purification Method Metal Affinity Chromatography
Protein Concentration 1.00 - 2.00 mg/mL (Lowry Method)
Preservative No Preservative Added

Infectious Diseases
Hepatitis B

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Hepatitis B		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens				
	Recombinant HBc Antigen	●	●		
	Recombinant HBsAg ay	●			
	Recombinant HBsAg ad	●			

Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant HBc Antigen	1 mg/vial	3000-5100	-20°C**
Recombinant HBc Antigen	mg/custom size*	3000-5102	-20°C**

*For large quantities, packaging available upon request - minimum size 5 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Source *Escherichia coli*
Storage Buffer PBS, pH 7.4
Purification Method Ultracentrifugation
Protein Concentration 0.20 - 1.00 mg/mL (Lowry Method)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant HBsAg ay	mg/custom size	3000-7069	-70°C**

**Avoid repeated freezing and thawing.
Contact Immunoassay@werfen.com for further technical information and product availability.

Specifications

Source CHO Cells
Storage Buffer Phosphate Buffer , Sodium Chloride
Purification Method Immunoaffinity
Protein Concentration 0.50 to 2.00 mg/mL
Preservative No Preservative added

Product Description	Presentation	Reference	Storage
Recombinant HBsAg ad	mg/custom size	3000-7082	-70°C**

**Avoid repeated freezing and thawing.
Contact Immunoassay@werfen.com for further technical information and product availability.

Specifications

Source CHO Cells
Storage Buffer Hepes , Sodium Chloride
Purification Method Immunoaffinity
Protein Concentration 0.50 to 2.00 mg/mL
Preservative No Preservative added

Hepatitis C

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Hepatitis C		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens				
	Recombinant HCV Capsid Polypeptide	●	●		
	Recombinant HCV NS3 Polypeptide	●	●		

Other uses may be applicable depending on customer use. For further technical information or requests please contact Immunoassay@werfen.com.

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant HCV Capsid Polypeptide	mg/custom size*	3000-5103	-70°C**
Recombinant HCV Capsid Polypeptide	1 mg/vial	3000-5314	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Source *Escherichia coli*
Storage Buffer Acetate, NaCl, pH 5.5
Purification Method Ion Exchange Chromatography
Protein Concentration 0.50 - 2.00 mg/mL (A_{280})
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant HCV NS3 Polypeptide	mg/custom size*	3000-5104	-70°C**
Recombinant HCV NS3 Polypeptide	1 mg/vial	3000-5105	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Source *Escherichia coli*
Storage Buffer Tris-HCl, NaCl, pH 8.6
Purification Method Affinity Chromatography
Protein Concentration 0.50 - 2.00 mg/mL (A_{280})
Preservative No Preservative Added

Syphilis

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Syphilis		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens				
	Recombinant p15 (II) *Treponema pallidum* Ag	●	●		
	Recombinant p17 *Treponema pallidum* Ag	●	●		
	Recombinant p47 *Treponema pallidum* Ag	●	●		
	Recombinant H-p17 *Treponema pallidum* Ag	●	●		
	Recombinant H-p47 *Treponema pallidum* Ag	●	●		

Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant p15 (II) *Treponema pallidum* Ag	mg/custom size*	3000-5289	-70°C**
Recombinant p15 (II) *Treponema pallidum* Ag	1 mg/vial	3000-5306	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Tag GST
Source *Escherichia coli*
Storage Buffer Tris-HCl, NaCl, pH 8.0
Purification Method Affinity Chromatography
Protein Concentration 3.00 - 7.00 mg/mL (A_{280} x 0.74)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant p17 *Treponema pallidum* Ag	mg/custom size*	3000-5280	-70°C**
Recombinant p17 *Treponema pallidum* Ag	2 mg/vial	3000-5305	-70°C**

*For large quantities, packaging available upon request - minimum size 2 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Tag GST
Source *Escherichia coli*
Storage Buffer Tris-HCl, NaCl, pH 8.0
Purification Method Affinity Chromatography
Protein Concentration 8.00 - 12.00 mg/mL (A_{280} x 0.78)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant p47 *Treponema pallidum* Ag	mg/custom size*	3000-5284	-70°C**
Recombinant p47 *Treponema pallidum* Ag	1 mg/vial	3000-5307	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Tag GST
Source *Escherichia coli*
Storage Buffer Tris-HCl, NaCl, pH 8.0
Purification Method Affinity Chromatography
Protein Concentration 4.00 - 6.00 mg/mL (A_{280} x 0.8)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant H-p17 *Treponema pallidum* Ag	mg/custom size*	3000-5254	-70°C**
Recombinant H-p17 *Treponema pallidum* Ag	1 mg/vial	3000-5308	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Tag HIS
Source *Escherichia coli*
Storage Buffer Tris-HCl, NaCl, pH 8.0
Purification Method Metal Affinity Chromatography
Protein Concentration 2.00 - 5.00 mg/mL (A_{280} x 1.38)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant H-p47 *Treponema pallidum* Ag	mg/custom size*	3000-5263	-70°C**
Recombinant H-p47 *Treponema pallidum* Ag	1 mg/vial	3000-5309	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Tag HIS
Source *Escherichia coli*
Storage Buffer Tris-HCl, NaCl, pH 8.0
Purification Method Metal Affinity Chromatography
Protein Concentration 2.00 - 5.00 mg/mL (A_{280} x 0.91)
Preservative No Preservative Added

Herpes

The following products have been reported to work in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Herpes		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens				
	Recombinant gG1 Protein HSV-1	●	●		
	Recombinant gG2 Protein HSV-2	●	●		

Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant gG1 Protein HSV-1*	0.5 mg/vial	3000-5288	-70°C**
Recombinant gG1 Protein HSV-1*	mg/custom size*	3000-5279	-70°C**

*For large quantities, packaging available upon request - minimum size 5 mg/vial. **Avoid repeated freezing and thawing.
#This product is manufactured using CrisBio® technologies are licensed by ALGENEX S.L.

Specifications

Source *Trichoplusia ni.*
Storage Buffer HEPES, NaCl, pH 7.5
Purification Method Ion Exchange and Affinity Chromatography
Protein Concentration 0.50 - 2.00 mg/mL (A_{280} x 6.95)
Preservative No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant gG2 Protein HSV-2*	0.5 mg/vial	3000-5282	-70°C**
Recombinant gG2 Protein HSV-2*	mg/custom size*	3000-5283	-70°C**

*For large quantities, packaging available upon request - minimum size 5 mg/vial. **Avoid repeated freezing and thawing.
#This product is manufactured using CrisBio® technologies are licensed by ALGENEX S.L.

Specifications

Source *Trichoplusia ni.*
Storage Buffer HEPES, NaCl, pH 8.2
Purification Method Ion Exchange and Affinity Chromatography
Protein Concentration 0.80 - 1.50 mg/mL (A_{280} x 5.45)
Preservative No Preservative Added

Chagas

The following products have been tested in the following applications. This information derives from use in commercial diagnostic assays and/or testing within our laboratories.

Chagas		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens				
	Recombinant TcF Antigen	●			

Other uses may be applicable depending on customer needs. For further technical information or requests please contact Immunoassay@werfen.com.

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant TcF Ag	mg/custom size*	3000-5321	-70°C**
Recombinant TcF Ag	4 mg/vial	3000-5322	-70°C**

*For large quantities, packaging available upon request - minimum size 1 mg/vial. **Avoid repeated freezing and thawing.

Details

Source *Escherichia coli*
Storage Buffer Tris, NaCL, pH 8.0
Purification Method Chromatography
Protein Concentration 1.00 - 4.00 mg/mL (BCA method)
Preservative No Preservative Added



Powering Patient Care

werfen

Av. Can Montcau 7
08186 Lliçà d'Amunt
Barcelona, Spain
Phone: +34-93-860-9000
werfen.com/immunoassay

3100-9717 R21 October 2026