



Biomaterials Catalog

Antigens & Antibodies Supply

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 OEM 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 OEM solutions (products & services) to IVD companies.



Innovation

Our OEM 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 as well as MDSAP.

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.

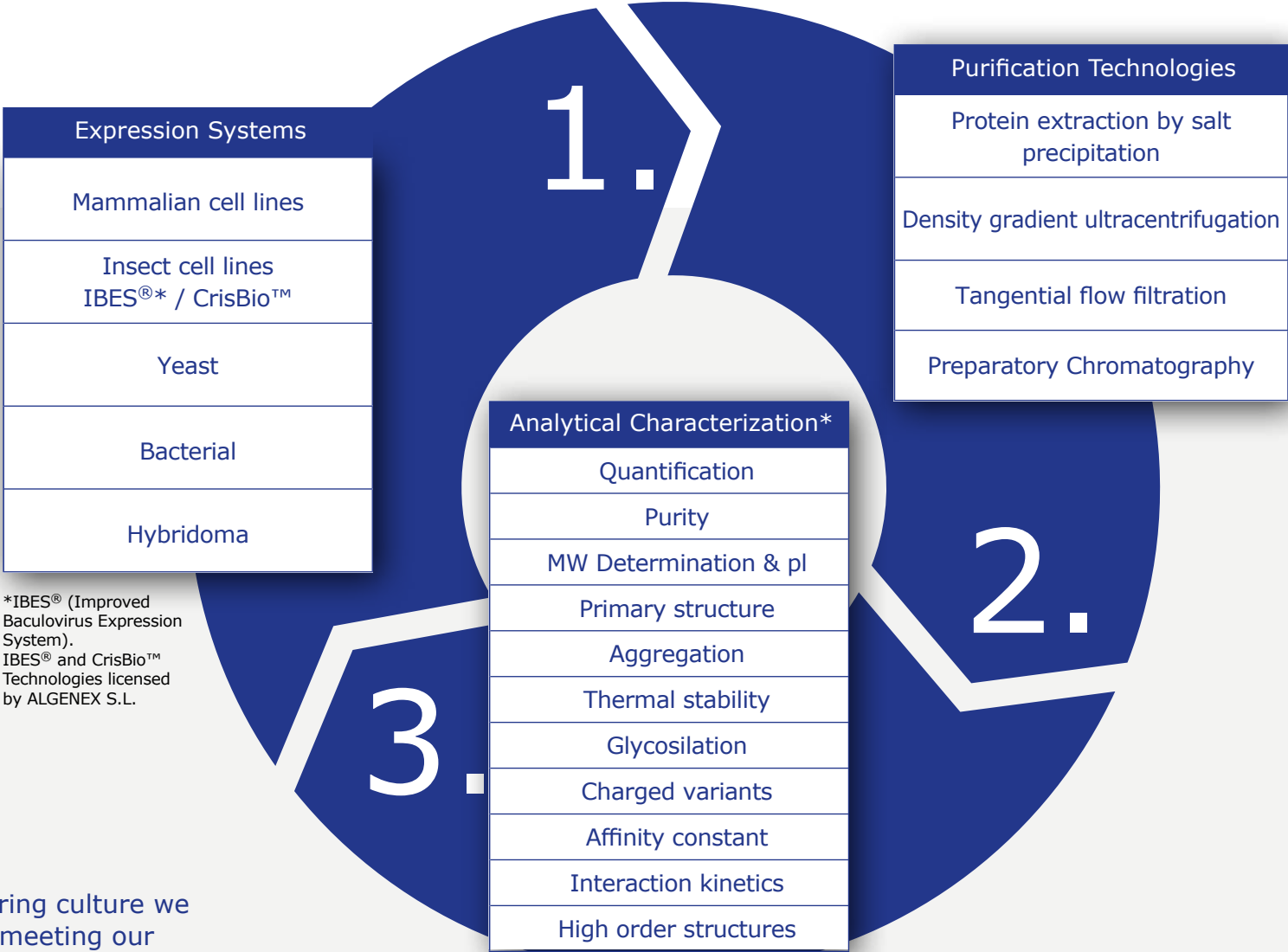
Our know-how in biomaterials is focused on their application in commercial diagnostic assays that provides a low-risk, reliable and highly successful option for our customers to reduce time to market in their developments and secure their operations.



Acronym List

A₂₈₀	Absorbance at 280 nm	HEV	Hepatitis E Virus
Ab	Antibody	HPLC	High Performance Liquid Chromatography
Ag	Antigen	HTLV	Human T-lymphotropic Virus
aHBs	Anti-Hepatitis B Surface	IBES	Improved Baculovirus Expression System
ASO	Anti-Streptolysin O	IVD	In Vitro Diagnostics
CHO	Chinese Hamster Ovary	mAb	Monoclonal Antibody
CL	Chemiluminescence	MES	2-(N-morpholino)ethanesulfonic acid
ELISA	Enzyme-Linked ImmunoSorbent Assay	NTE	NaCl-Tris-EDTA buffer
GMP	Good Manufacturing Practices	pAb	Polyclonal Antibody
HBV	Hepatitis B Virus	PBS	Phosphate-Buffered Saline
HCV	Hepatitis C Virus	PIGF	Placental Growth Factor
HEPES	N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid	Rec	Recombinant
		sFlt-1	Soluble "FMS" like tyrosine kinase

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 OEM 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 OEM 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 m² (409,028 ft²) facilities of which 10,000 m² (107,639 ft²) are dedicated to production activities
- Extensive manufacturing scale-up capabilities
- Biosafety level 2 laboratories
- Positive and negative pressurized laboratories
- State-of-the-art equipment: Bioreactors, AKTA Systems among others
- 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*

Fertility		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Monoclonal Antibodies p. 10				
	Anti-Placental Growth Factor mAb (1)	●			
	Anti-Placental Growth Factor mAb (2)	●			
	Anti-sFtl-1 mAb (SFT10m)	●			
	Anti-sFtl-1 mAb (SFT18m)	●			
	Anti-17-OH Progesterone mAb (1)	●			
	Anti-17-OH Progesterone mAb (2)	●			
	AMH Antibody-Like protein	●			
Endocrinology					
	Monoclonal Antibodies p. 13	●			
	Anti-Cortisol mAb (3)	●			
	Anti-Cortisol mAb (4)	●			
	Anti-human Growth Factor mAb (7)	●			
	Anti-human Growth Factor mAb (5)	●			
	Anti-Prolactin mAb (1)	●			
	Anti-Prolactin mAb (2)	●			
Bone Metabolism					
	Monoclonal Antibodies p. 15				
	Anti-Osteocalcin mAb (OST18m)	●			
	Anti-Osteocalcin mAb (OST24m)	●			
Cardiac					
	Recombinant Antibodies p. 16				
	Anti-Troponin I rAb (1)		●		
	Anti-Troponin I rAb (2)				
	Anti-GDF-15 rAb (1)				
	Anti-GDF-15 rAb (2)				

*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 OEM@werfen.com.

Inflammation		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	IL-6 p. 18				
	Recombinant Antibodies				
	Anti-IL-6 rAb (1)		●		
	Anti-IL-6 rAb (2)		●		
	ASO p. 19				
	Recombinant Antigens				
	Recombinant Streptolysin O			●	●
	Recombinant Streptolysin O Stabilized			●	●
Hepatitis B					
	Native Antigens p. 20				
	Hepatitis B Surface Antigen (ad Subtype)	●	●		
	Hepatitis B Surface Antigen (ay Subtype)	●	●		
	Recombinant Antigens p. 21				
	Recombinant HBc Antigen	●	●		
	Polyclonal Antibodies p. 22				
	Anti-HBs Goat IgG pAb	●	●		
	Anti-HBs Guinea Pig IgG pAb	●	●		
	Monoclonal Antibodies p. 23				
	Anti-HBs mAb (1DE2)				
Hepatitis C					
	Recombinant Antigens p. 24				
	Recombinant HCV Capsid Polypeptide	●	●		
	Recombinant HCV NS3 Polypeptide		●		
Hepatitis E					
	Recombinant Antigen p. 25				
	Recombinant Hepatitis E 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 OEM@werfen.com.*

Syphilis		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens p. 26				
	Recombinant p15 (II) <i>Treponema pallidum</i> Ag	●	●		
	Recombinant p17 <i>Treponema pallidum</i> Ag	●	●		
	Recombinant p47 <i>Treponema pallidum</i> Ag	●	●		
	Recombinant H-p17 <i>Treponema pallidum</i> Ag	●	●		
	Recombinant H-p47 <i>Treponema pallidum</i> Ag	●	●		
Toxoplasma gondii					
	Recombinant Antigen p. 29				
	Recombinant Toxoplasma Antigen	●			
Rubella					
	Native Antigens p. 30				
	Rubella Antigen Grade A	●	●	●	
	Rubella Antigen Grade B				●
Cytomegalovirus					
	Native Antigens p. 31				
	Cytomegalovirus 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 OEM@werfen.com.*

Biomaterials Applications*

		Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Herpes	Recombinant Antigens p. 32				
	Recombinant gG1 Protein HSV-1	●	●		
	Recombinant gG2 Protein HSV-2	●	●		
Chagas	Recombinant Antigens p. 33				
	Recombinant TcF Antigen	●			
HTLV	Recombinant Antigen p. 34				
	Recombinant HTLV I/II Antigen	●			
Chikungunya	Recombinant Proteins p. 35				
	Recombinant Chikungunya glycoprotein E1		●		
	Recombinant Chikungunya glycoprotein E2		●		
Zika	Recombinant Proteins p. 36				
	Recombinant Zika NS1 Protein		●		
Rotavirus	Polyclonal Antibodies p. 37				
	Anti-Rotavirus Rabbit IgG pAb		●		●
Adenovirus	Monoclonal Antibodies p. 38				
	Anti-Adenovirus mAb (2/6)		●		●
	Anti-Adenovirus mAb (20/11)		●		●
Secondary Antibodies	Monoclonal Antibodies p. 39				
	Anti-Human IgG mAb	●			
	Anti-Human IgM mAb	●			

*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 OEM@werfen.com.

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 (1)	●			
Anti-Placental Growth Factor mAb (2)	●			
Anti-sFlt-1 mAb (1)	●			
Anti-sFlt-1 mAb (2)	●			
Anti-17-OH Progesterone mAb (1)	●			
Anti-17-OH Progesterone mAb (2)	●			
AMH Antibody-Like protein	●			

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

Monoclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-Placental Growth Factor mAb (1)	mg/custom size	3000-7060	-70°C*
Anti-Placental Growth Factor mAb (2)	mg/custom size	3000-7061	-70°C*

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@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 mg /mL (A_{280})
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-sFtl-1 mAb (SFT10m)	mg/custom size	3000-7062	-70°C*
Anti-sFlt-1 mAb (SFT18m)	mg/custom size	3000-7063	-70°C*

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Details

Source	Hybridoma cell line
Storage Buffer	50 mM MES, 150 mM, NaCl, pH 6
Purification Method	Protein A
Protein Concentration	1 mg /mL (A ₂₈₀)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-17-OH Progesterone mAb (1)	mg/custom size	3000-5320	-70°C*
Anti-17-OH Progesterone mAb (2)	mg/custom size	3000-5317	-70°C*

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Details

Source	Hybridoma cell line
Storage Buffer	PBS, pH 7.4
Purification Method	Protein G
Protein Concentration	1 mg /mL (A ₂₈₀)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
AMH Antibody-Like protein	mg/custom size	3000-7075	-70°C*

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Details

Source	Escherichia coli
Storage Buffer	Citrate, NaCl, pH 6.5
Purification Method	Affinity chromatography
Protein Concentration	1mg/mL
Preservative	0,2% Azide

Endocrinology

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.

Endocrinology	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Monoclonal Antibodies				
Anti-Cortisol mAb (3)	●			
Anti-Cortisol mAb (4)	●			
Anti-hGH mAb (7)	●			
Anti-hGH mAb (5)	●			
Anti-Prolactin mAb (1)	●			
Anti-Prolactin mAb (2)	●			

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

Monoclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-Cortisol mAb (3)	mg/custom size	3000-5315	-70°C*
Anti-Cortisol mAb (4)	mg/custom size	3000-5318	-70°C*

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@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 mg /mL (A ₂₈₀)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-hGH mAb (7)	mg/custom size	3000-5316	-70°C*
Anti-hGH mAb (5)	mg/custom size	3000-5319	-70°C*

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Details

Source	Hybridoma cell line
Storage Buffer	PBS, pH 7.4
Purification Method	Protein G
Protein Concentration	1 mg /mL (A ₂₈₀)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-Prolactin mAb (1)	mg/custom size	3421-0000	-70°C*
Anti-Prolactin mAb (2)	mg/custom size	3421-0001	-70°C*

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Details

Source	Hybridoma cell line
Storage Buffer	PBS, pH 7.4
Purification Method	Protein G
Protein Concentration	0.50 mg/mL (A ₂₈₀)
Preservative	No Preservative Added

Bone Metabolism

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.

Bone Metabolism	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Monoclonal Antibodies				
Anti-Osteocalcin mAb (OST18m)	●			
Anti-Osteocalcin mAb (OST24m)	●			

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

Monoclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-Osteocalcin mAb (OST18m)	mg/custom size	3000-7072	-70°C*
Anti-Osteocalcin mAb (OST24m)	mg/custom size	3000-7072	-70°C*

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@werfen.com for further technical information and product availability. *Avoid repeated freezing and thawing.

Details

Source	Hybridoma cell line
Storage Buffer	MES, pH 6
Purification Method	Protein A affinity chromatography
Protein Concentration	0.8-1mg/mL
Preservative	No Preservative Added

Cardiac

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.

Cardiac	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Recombinant Antibodies				
Anti-Troponin I rAb (1)		●		
Anti-Troponin I rAb (2)				
Anti-GDF-15 rAb (1)				
Anti-GDF-15 rAb (2)				

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

Recombinant Antibodies

Product Description	Presentation	Reference	Storage
Anti-Troponin I rAb (1)	mg/custom size	3421-0004	2-8°C
Anti-Troponin I rAb (2)	mg/custom size	3421-0005	2-8°C

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@werfen.com for further technical information and product availability.

Details

Source	CHO-based cell line
Storage Buffer	PBS, pH 7.4
Purification Method	Protein A
Protein Concentration	1mg/mL
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-GDF-15 rAb (1)	mg/custom size	3421-0002	2-8°C
Anti-GDF-15 rAb (2)	mg/custom size	3421-0003	2-8°C

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@werfen.com for further technical information and product availability.

Details

Source	CHO-based cell line
Storage Buffer	PBS, pH 7.4
Purification Method	Protein A
Protein Concentration	1mg/mL
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
IL-6				
Recombinant Antibodies				
Anti-IL-6 rAb (1)		●		
Anti-IL-6 rAb (2)		●		
ASO				
Recombinant Antigens				
Recombinant Streptolysin O			●	●
Recombinant Streptolysin O Stabilized			●	●

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

IL-6 Recombinant Antibodies

Product Description	Presentation	Reference	Storage
Anti-IL-6 rAb (1)	mg/custom size	3421-0006	2-8°C
Anti-IL-6 rAb (2)	mg/custom size	3421-0007	2-8°C

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@werfen.com for further technical information and product availability.

Details

Source	CHO-based cell line
Storage Buffer	PBS, pH 7.4
Purification Method	Protein A
Protein Concentration	1mg/mL
Preservative	No Preservative Added

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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, pH 8.5
Purification Method	Metal Affinity Chromatography
Protein Concentration	2-4 mg/mL ($A_{280} \times 0.79$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant Streptolysin O stabilized	1mg/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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, pH 8.2
Purification Method	Metal Affinity Chromatography
Protein Concentration	1-2 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
Native Antigens				
Hepatitis B Surface Antigen (ad Subtype)	●	●		
Hepatitis B Surface Antigen (ay Subtype)	●	●		
Recombinant Antigens				
Recombinant HBc Antigen	●	●		
Polyclonal Antibodies				
Anti-HBs Rabbit IgG pAb		●		
Anti-HBs Goat IgG pAb	●	●		
Anti-HBs Guinea Pig IgG pAb	●	●		
Anti-rHBc Rabbit IgG pAb	●	●		
Monoclonal Antibodies				
Anti-HBs mAb (1DE2)				

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

Native Antigens

Product Description	Presentation	Reference	Storage
Hepatitis B Surface Antigen (ad Subtype)	1 mg/vial	3000-5201	-20°C**
Hepatitis B Surface Antigen (ad Subtype)	mg/custom size*	3000-5200	-20°C**

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

Specifications

Source	Human plasma
Storage Buffer	PBS, pH 7.4
Purification Method	Ultracentrifugation
Protein Concentration	2-3 mg/mL ($A_{280} / 3.726$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Hepatitis B Surface Antigen (ay Subtype)	1 mg/vial	3000-5199	-20°C**
Hepatitis B Surface Antigen (ay Subtype)	mg/custom size*	3000-5198	-20°C**

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

Specifications

Source	Human plasma
Storage Buffer	PBS, pH 7.4
Purification Method	Ultracentrifugation
Protein Concentration	2-3 mg/mL (A_{280} / 3.726)
Preservative	No Preservative Added

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	<i>Escherichia coli</i>
Storage Buffer	PBS, pH 7.4
Purification Method	Ultracentrifugation
Protein Concentration	0.2-1.0 mg/mL (Lowry Method)
Preservative	No Preservative Added

Polyclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-HBs Goat IgG pAb	5 mg/vial	3000-5501	2-8°C
Anti-HBs Goat IgG pAb	mg/custom size*	3000-5502	2-8°C

*For large quantities, packaging available upon request - minimum size 10 mg/vial.

Specifications

Source	Goat Serum
Storage Buffer	Carbonate, pH 9.5
Purification Method	Immunoaffinity Chromatography
Protein Concentration	1-3 mg/mL ($A_{280} / 0.71$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-HBs Guinea Pig IgG pAb	5 mg/vial	3000-5264	2-8°C
Anti-HBs Guinea Pig IgG pAb	mg/custom size*	3000-5265	2-8°C

*For large quantities, packaging available upon request - minimum size 10 mg/vial.

Specifications

Source	Guinea Pig Serum
Storage Buffer	PBS
Purification Method	Immunoaffinity Chromatography
Protein Concentration	0.5-2.0 mg/mL ($A_{280} / 0.78$)
Preservative	< 0.1% Sodium Azide

Monoclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-HBs mAb (1DE2)	50 mg/custom size*	3000-5012	-70°C**
Anti-HBs mAb (1DE2)	1mg/vial	3000-5011	-70°C**

*For large quantities, packaging available upon request - minimum order 50 mg and minimum size 5 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Isotype	Mouse IgG1 Kappa
Source	Hybridoma Cell Line
Storage Buffer	Citrate, 0.1M, pH 7.5
Purification Method	Affinity Chromatography
Protein Concentration	2-6 mg/mL ($A_{280} / 0.71$)
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 OEM@werfen.com.

Recombinant Antigens

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

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

Specifications

Source	<i>Escherichia coli</i>
Storage Buffer	Acetate, NaCl, pH 5.5
Purification Method	Ion Exchange Chromatography
Protein Concentration	0.5-2.0 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	1mg/vial	3000-5105	-70°C**

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

Specifications

Source	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, NaCl, pH 8.6
Purification Method	Affinity Chromatography
Protein Concentration	0.5-2.0 mg/mL (A ₂₈₀)
Preservative	No Preservative Added

Hepatitis E

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.

Hepatitis E	Antigen	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Recombinant Antigens					
	Recombinant HEV Ag	●			

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

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant HEV Ag	mg/custom size*	3000-5326	-70°C**
Recombinant HEV Ag	1 mg/vial	3000-5326	-70°C**

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

Specifications

Source	<i>Escherichia coli</i>
Storage Buffer	MES, NaCl, pH 6.4
Purification Method	Affinity Chromatography
Protein Concentration	2.5-4.00 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	Antigen	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
	Recombinant Antigens				
	Recombinant p15 (II) <i>Treponema pallidum</i> Ag	●	●		
	Recombinant p17 <i>Treponema pallidum</i> Ag	●	●		
	Recombinant p47 <i>Treponema pallidum</i> Ag	●	●		
	Recombinant H-p17 <i>Treponema pallidum</i> Ag	●	●		
	Recombinant H-p47 <i>Treponema pallidum</i> Ag	●	●		

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

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant p15 (II) <i>Treponema pallidum</i> Ag	mg/custom size*	3000-5289	-70°C**
Recombinant p15 (II) <i>Treponema pallidum</i> Ag	1mg/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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, NaCl, pH 8.0
Purification Method	Affinity Chromatography
Protein Concentration	3-7 mg/mL ($A_{280} \times 0.74$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant p17 <i>Treponema pallidum</i> Ag	mg/custom size*	3000-5280	-70°C**
Recombinant p17 <i>Treponema pallidum</i> Ag	1mg/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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, NaCl, pH 8.0
Purification Method	Affinity Chromatography
Protein Concentration	8-12 mg/mL ($A_{280} \times 0.78$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant p47 <i>Treponema pallidum</i> Ag	mg/custom size*	3000-5284	-70°C**
Recombinant p47 <i>Treponema pallidum</i> Ag	1mg/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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, NaCl, pH 8.0
Purification Method	Affinity Chromatography
Protein Concentration	4-6 mg/mL ($A_{280} \times 0.8$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant H-p17 <i>Treponema pallidum</i> Ag	mg/custom size*	3000-5254	-70°C**
Recombinant H-p17 <i>Treponema pallidum</i> Ag	1mg/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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, NaCl, pH 8.0
Purification Method	Metal Affinity Chromatography
Protein Concentration	2-5 mg/mL ($A_{280} \times 1.38$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Recombinant H-p47 <i>Treponema pallidum</i> Ag	mg/custom size*	3000-5263	-70°C**
Recombinant H-p47 <i>Treponema pallidum</i> Ag	1mg/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	<i>Escherichia coli</i>
Storage Buffer	Tris-HCl, NaCl, pH 8.0
Purification Method	Metal Affinity Chromatography
Protein Concentration	2-5 mg/mL ($A_{280} \times 0.91$)
Preservative	No Preservative Added

Toxoplasma

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.

Toxoplasma	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Recombinant Antigen				
Recombinant Toxoplasma Antigen	●			

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

Recombinant Toxoplasma Antigen

Product Description	Presentation	Reference	Storage
Recombinant Toxoplasma Antigen	mg/custom size	3000-7074	-70°C*

This product is in R&D Stage and is for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@werfen.com for further technical information and product availability. *Avoid repeated freezing and thawing.

Details

Source	<i>Escherichia coli</i>
Storage Buffer	Sodium Bicarbonate, Sodium Carbonate pH 9.6
Purification Method	Affinity chromatography
Protein Concentration	1 mg /mL
Preservative	No Preservative Added

Rubella Virus

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.

Rubella	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Native Antigens				
Rubella Antigen Grade A	●	●	●	
Rubella Antigen Grade B				●

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

Native Antigens

Product Description	Presentation	Reference	Storage
Rubella Antigen Grade A	1 mg/vial	3000-5202	-70°C**
Rubella Antigen Grade A	mg/custom size*	3000-5204	-70°C**

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

Specifications

Source	Tissue Culture (Virus Strain HPV-77)
Storage Buffer	Sucrose/SDS/NTE
Purification Method	Ultracentrifugation
Protein Concentration	0.5-1.5 mg/mL (Modified Warburg-Christian Method)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Rubella Antigen Grade B	1 mg/vial	3000-5203	-70°C**
Rubella Antigen Grade B	mg/custom size*	3000-5205	-70°C**

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

Specifications

Source	Tissue Culture (Virus Strain HPV-77)
Storage Buffer	Sucrose/SDS/NTE
Purification Method	Ultracentrifugation
Protein Concentration	0.1-0.5 mg/mL (Modified Warburg-Christian Method)
Preservative	No Preservative Added

Cytomegalovirus

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.

Cytomegalovirus	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
<i>Native Antigens</i>				
Cytomegalovirus Antigen	●	●		

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

Native Antigens

Product Description	Presentation	Reference	Storage
Cytomegalovirus Antigen#	mg/custom size*	3000-5260	-70°C**
Cytomegalovirus Antigen	1mg/vial	3000-5310	-70°C**

*For large quantities, packaging available upon request - minimum size 1mg/vial. **Avoid repeated freezing and thawing.
#Sonication is recommended prior to use.

Specifications

Source	Tissue Culture
Storage Buffer	NTE, pH 8.0
Protein Concentration	0.4-0.7 mg/mL (Modified Warburg-Christian Method)
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 OEM@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™ technology from ALGENEX S.L

Specifications

Source	<i>Trichoplusia ni.</i>
Storage Buffer	HEPES, NaCl, pH 7.5
Purification Method	Ion Exchange and Affinity Chromatography
Protein Concentration	0.5-2 mg/mL ($A_{280} \times 6.95$)
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™ technology from ALGENEX S.L

Specifications

Source	<i>Trichoplusia ni.</i>
Storage Buffer	HEPES, NaCl, pH 8.2
Purification Method	Ion Exchange and Affinity Chromatography
Protein Concentration	0.8-1.5 mg/mL ($A_{280} \times 5.45$)
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 OEM@werfen.com.

Recombinant Antigens

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

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

Details

Source	<i>Escherichia coli</i>
Storage Buffer	Tris, NaCL, pH 8.0
Purification Method	Chromatography
Protein Concentration	1-4 mg/mL (BCA method)
Preservative	No Preservative Added

HTLV

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.

HTLV	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Recombinant Antigens				
Recombinant HTLV Antigen	●			

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

Recombinant Antigens

Product Description	Presentation	Reference	Storage
Recombinant HTLV Antigen	mg/custom size	3000-7066	-70°C*

These products are in R&D Stage and are for "Investigation / Research Use Only". The information contained in this catalogue is for informational purposes. Contact oem@werfen.com for further technical information and product availability. *Avoid repeated freezing and thawing.

Details

Source	<i>Escherichia coli</i>
Storage Buffer	Sodium carbonate, NaCl, Glycerol, pH 9.3
Purification Method	Affinity chromatography
Protein Concentration	1 mg/mL
Preservative	No Preservative Added

Chikungunya

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.

Chikungunya	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Recombinant Proteins				
Recombinant Chikungunya glycoprotein E1		●		
Recombinant Chikungunya glycoprotein E2		●		

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

Recombinant Proteins

Product Description	Presentation	Reference	Storage
Recombinant Chikungunya glycoprotein E1	1mg/mL vial	3000-9000	≤65°C*
Recombinant Chikungunya glycoprotein E2	1mg/mL vial	3000-9001	≤65°C*

Contact oem@werfen.com for further information on geographical availability. *Avoid repeated freezing and thawing.

Specifications

Source	Insect cell expression system
Storage Buffer	Phosphate, NaCl, pH 8.0 and Glycerol
Purification Method	Chromatography
Protein Concentration	0.5–5.0 mg/mL (A ₂₈₀)
Preservative	No Preservative Added

Zika

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.

Zika	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Recombinant Proteins				
Recombinant Zika NS1 Protein		●		

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

Recombinant Proteins

Product Description	Presentation	Reference	Storage
Recombinant Zika NS1 Protein	1 mg/vial	3000-9002	≤65°C*

Contact oem@werfen.com for further information on geographical availability. *Avoid repeated freezing and thawing.

Specifications

Source	Insect cell expression system
Storage Buffer	HEPES/NaOH, NaCl, pH 8.0 and Glycerol
Purification Method	Chromatography
Protein Concentration	0.5–2.0 mg/mL (A ₂₈₀)
Preservative	No Preservative Added

Rotavirus

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.

Rotavirus	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Polyclonal Antibodies				
Anti-Rotavirus Rabbit IgG pAb		●		●

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

Polyclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-Rotavirus Rabbit IgG pAb	5 mg/vial	3000-5525	-20°C**
Anti-Rotavirus Rabbit IgG pAb	mg/custom size*	3000-5526	-20°C**

*For large quantities, packaging available upon request - minimum size 10 mg/vial. Contact oem@werfen.com for further technical information and product availability. **Avoid repeated freezing and thawing.

Specifications

Source	Rabbit Serum
Storage Buffer	PBS with potassium chloride, pH 8.0
Purification Method	Precipitation and Ion Exchange Chromatography
Protein Concentration	5–15 mg/mL ($A_{280} \times 0.71$)
Preservative	0.05% Chloretone

Adenovirus

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.

Adenovirus	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Monoclonal Antibodies				
Anti-Adenovirus mAb (2/6)		●		●
Anti-Adenovirus mAb (20/11)		●		●

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

Monoclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-Adenovirus mAb (2/6)	1mg/vial	3000-5312	-70°C**
Anti-Adenovirus mAb (2/6)	mg/custom size*	3000-5113	-70°C**

*For large quantities, packaging available upon request - minimum order 50 mg and minimum size 5 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Isotype	Mouse IgG1 Kappa
Source	Cell Culture
Storage Buffer	Citrate, pH 7.5
Purification Method	Affinity Chromatography
Protein Concentration	1-4 mg/mL ($A_{280} \times 0.71$)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-Adenovirus mAb (20/11)	1mg/vial	3000-5313	-70°C**
Anti-Adenovirus (20/11)	mg/custom size*	3000-5114	-70°C**

*For large quantities, packaging available upon request - minimum order 50 mg and minimum size 5 mg/vial. **Avoid repeated freezing and thawing.

Specifications

Isotype	Mouse IgG1 Kappa
Source	Cell Culture
Storage Buffer	Citrate, pH 7.5
Purification Method	Affinity Chromatography
Protein Concentration	1-4 mg/mL ($A_{280} \times 0.71$)
Preservative	No Preservative Added

Secondary 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.

Secondary Antibodies	Chemiluminescence	ELISA	Turbidimetry	Rapid Test
Monoclonal Antibodies				
Anti-Human IgG mAb	●			
Anti-Human IgM mAb	●			

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

Monoclonal Antibodies

Product Description	Presentation	Reference	Storage
Anti-Human IgG mAb	mg/custom size*	3000-5327	-70°C**
Anti-Human IgG mAb	1mg/vial	3000-5324	-70°C**

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

Specifications

Source	Hybridoma cell line
Storage Buffer	MES, NaCL, pH 6.0
Purification Method	Affinity Chromatography
Protein Concentration	≥ 3.00 mg/ml (A ₂₈₀)
Preservative	No Preservative Added

Product Description	Presentation	Reference	Storage
Anti-Human IgM mAb	mg/custom size*	3000-5328	-70°C**
Anti-Human IgM mAb	1mg/vial	3000-5325	-70°C**

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

Specifications

Source	Hybridoma Cell Line
Storage Buffer	MES, NaCL, pH 6.0
Purification Method	Affinity chromatography
Protein Concentration	≥ 2.50 mg/ml (A ₂₈₀)
Preservative	No Preservative Added



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