One Company

Two Solutions



Haemtech Biopharma

Proteins, antibodies and related products for coagulation research

GMP-compliant, QC testing for protein biotherapeutics

Purified Proteins Better quality = Better Results

>95% pure, fully functional and guaranteed.* Multi-species, active site-blocked, and conjugated versions available. Custom purification available upon request.

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Factor VII & VIIa	RVVV/RVVX/E. Carinatus	TAFI	Thrombospondin
Factor IX & IXa	Factor V & Va	Angiostatin	Vitronectin
Factor X & Xa	Fibronectin	Alpha-2-antiplasmin	R. Tissue Factor
Factor XI & Xla	Protein S	Protein Z	Bovine Lactadherin
Factor XII	Thrombomodulin	Fibrinogen	Osteocalcin
Factor XIII & XIIIa	vWF & vWF VIII-free	Beta-2-glycoprotein 1	Phospholipids
Plasminogen & Plasmin	Heparin Cofactor II	Osteonectin	Fluorogenic substrates
Protein C & aPC	Antithrombin III	Platelet factor 4	CMK-protease inhibitors
Prothrombin & Thrombin	Corn Trypsin Inhibitor**	Beta-thromboglobulin	DAPA

* Up to the expiration data on the product data sheet

**** CTI blood** collection tubes available

One Company

Antibodies For blot, ELISA, purification & more

A full complement of monoclonal and polyclonal antibodies against human and bovine coagulation proteins. Custom conjugated* and affinity purified versions are available.



Anti-Factor XII	Anti-Protein S	Anti-vWF
Anti-Factor XIII	Anti-Osteonectin	Anti-Tissue Factor
Anti-Plasminogen	Anti-Osteocalcin	Anti-Protein Z
Anti-Prothrombin	Anti-TAFI	Anti-Heparin Cofactor II
Anti-Thrombin	Anti-TFPI	Anti-Fibrinogen
Anti-Protein C	Anti-Antithrombin	and more!
	Anti-Factor XIII Anti-Plasminogen Anti-Prothrombin Anti-Thrombin	Anti-Factor XIIIAnti-OsteonectinAnti-PlasminogenAnti-OsteocalcinAnti-ProthrombinAnti-TAFIAnti-ThrombinAnti-TFPI

* FITC, HRP, biotin and custom conjugates available for special orders. Coupled sepharose also available.



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Factor Deficient Plasmas Without the IVD cost

For research use only, our factor deficient plasmas are immunodepleted, have a normal range of remaining factors, and are calibrated against IVD plasmas to ensure equivalent performance - all for about ½ the cost of IVD deficient plasma.



Prothrombin deficient	Factor X deficient
Factor V deficient	Factor XI deficient
Factor VII deficient	Factor XII deficient
Factor VIII deficient*	Antithrombin deficient
Factor IX deficient	Double deficient plasma**

* Chemically depleted. CRIM+

****** Custom manufacture only

One Company

Custom Blood and Sample Collection Tubes

To your specifications

Create customized collection tubes for your clinical research studies. Manufactured to your specifications with contents that are specific to your needs.

802.878.1



Various tube sizes, styles, and vacuum draws Screw-cap vials available Liquid or lyophilized formulations that you create Batch sizes as small as one Quick turn around Non-sterile, research use only



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Analytical Testing for IVIG Drug Products

From R&D through validated assays for lot release, we offer a myriad of analytical methods to assess the identity, purity, and potential safety of your IVIG drug product to meet current regulatory requirements.



Thrombin generation assays	Factor XIa	Protein G HPLC	РКА
Total protein	Na-Caprylate	Glycine	Hemagglutination (Anti-A & B)
Plasmin	Plasminogen	Anti-complement	Osmolality
Anti-D antibodies	Fc Function Test	NAPTT	рН
IgM Assay	Fibrinogen	IgG Sub-Class Characterization	
IgA Assay	SDS-PAGE	Size exclusion HPLC	

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Analysis & Characterization Assays

For Biotherapeutics

Providing analytical support for your biopharmaceutical from early evaluation of APIs through stability & release of your commercial drug product.



Applications:			
Thrombogenicity	Anti-drug antibody testing	Potency of coagulation proteins	Purity of proteins
Structural characterization	Pharmacokinetic studies	Protein purification methods	Forced degradation studies
Aggregate investigation	Custom assay development	Assay validation	
Methods:			
HPLC (SEC, RPC, IEC, Protein A)	SDS-PAGE (1D & 2D)	Western blot	Clotting assays
ELISA	Chromogenic assays	Thrombin generation assays	Mass spec
рН	Head space vacuum	Residual moisture	Post-translational modification
Refractive index			

Haemtech Biopharma services

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Stability & Release Testing For Biotherapeutics and IVD/POC reagents

Accelerated and real-time stability studies to determine the shelf-life of your drug product under various temperature and humidity conditions. Lot release testing services when you are ready to go from development to commercialization.



Stability Storage Conditions	Methods & Compliance	Specializing in
-70°C ± 10°C	Compedial	IVIG drug products
-20°C ± 5°C	Client transferred	Recombinant clotting factors
5°C ± 3°C	Custom developed/validated	Plasma-derived proteins
25°C ± 2°C/60% ± 5% RH	cGMP, cGLP and cGCP	
30°C ± 2°C / 65% ± 5% RH	ICH, USP and EP	_
40°C ± 2°C/75% ± 5% RH	See methods on Analysis & Characterization Assays page	

One Company

Host Cell Protein Evaluation & Mitigation

With methods to identify and quantify HCPs along with the experience to help remove them from your manufacturing process, we offer an all-under-one-roof solution to your host cell protein challenges.



Methods for HCP detection and quantitation:

1D/2D SDS-PAGE

IEX-HPLC and RP-HPLC for impurity identification

Commercial HCP ELISA evaluation and method execution

LC-MRM targeted quantitative proteomics analysis

Specialized immunochemical methods for immunogenic HCP identification in cases where patients have developed anti-HCP antibodies

SEC-HPLC for HMW impurity detection

1D/2D Western blot - for HCPs & product quantitation

LC-MS/MS proteomic analysis for HCP identity

Develop, validate, and run ELISAs for specific HCPs in product or process samples

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About Haematologic Technologies, Inc.

Haematologic Technologies, Inc. (HTI), an ISO 9001:2015 registered company, is a primary manufacturer that specializes in the isolation and characterization of high quality plasma proteins, which are intended for in vitro research use. HTI is focused on proteins involved in the regulation of blood coagulation as well as the regulation of bone metabolism. The HTI product line consists of over 150 highly purified and well-characterized proteins including zymogens, enzymes, cofactors, and inhibitors as well as a complementary line of monoclonal and polyclonal antibodies. Also available are factor deficient plasmas and customized blood collection tubes made-to-order for clinical research. Services available include custom protein purification, protein modification, assay development, contract manufacturing, and contract research.



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About Haemtech Biopharma Services

Haemtech Biopharma Services (HBS) is a leading cGMP-compliant, QC testing laboratory that specializes in providing analytical services for biopharmaceutical manufacturers producing recombinant and plasma-derived protein therapeutics with emphasis on those affecting the hemostatic system. HBS enables its customers to satisfy regulatory and quality testing requirements to bring their drug candidate from development to commercialization.