



# Proteomic & Genomic Sample Preparation & Enrichment

**BIOTECH SUPPORT GROUP**  
Sample Prep that Matters

**PROTEOMICS SAMPLE PREP**

**ALBUMIN DEPLETION**

**HEMOGLOBIN DEPLETION**

**LOW ABUNDANCE ENRICHMENT**

**CLASS SPECIFIC ENRICHMENT**

**FUNCTIONAL PROTEOMICS**

**CHEMICAL PROTEOMICS**

**GENOMICS SAMPLE PREP**

**Biotech Support Group LLC**

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732-274-2866 Worldwide**

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## **Our Mission**

We are dedicated to create new methods and applications to drive efficient workflows and better data quality for all proteomic and biomarker analyses.

## **Technology Platforms**

The “omics” revolution demanded new and different sample prep separations that were not efficiently performed by conventional technologies. For years the protein separations toolkit was limited to liquid chromatography and gel electrophoresis. While effective for many applications, such tools were not efficient for “omics” sample preparation, when throughput, economy and simplicity were required. Furthermore, these same separation tools most often denatured proteins which limited their use in applications which required the measurement of function, structure or bio-activity.

## **NuGel™ Silica Surface Chemistry**

Through a proprietary polymer coating, 50 µm porous silica beads are crosslinked and passivated. From this NuGel™ platform chemistry, a library of bead architectures have been created. Each bead chemistry in the library presents a mixed-mode interaction; combining elements of ionic, aliphatic and aromatic hydrophobicity, and polymeric characteristics. One can think of these binding interactions in different terms; as general non-specific protein adsorbents, or as bead matrices with weak affinity or imperfect fit interactions. In this way, their binding behavior is very different from classical high affinity binding which demands near perfect fits. When conditions support protein binding saturation, progressive displacement allows the beads to bias for or against certain proteins. So in this manner, all derivative NuGel™ products were empirically characterized to meet the needs of the application; for example, HemoVoid™ to selectively void (not bind) hemoglobin while capturing the majority of the remaining low abundance proteome on the bead. NuGel™ bead products are supplied as dry powders, and NuGel™ based kits include all necessary buffers to meet the application requirements.

## **Polymers & Metallic Oxides**

Along with the NuGel™ based products, ProCipitate™, and related products Viraffinity™, and HemogloBind™ come from a family of acid-alcohol elastomeric co-polymers. These polymers are synthesized in unique ways to have separation characteristics like salts and solvents, but with the mechanical advantages of solid-phases: simple removal of the bound macromolecules with no carryover of the solute, and adaptability to filtration, centrifugation, and automation. Two metallic oxide based products, Cleanascite™ and KinaSorb™, are also featured in the catalog. Polymer & metallic oxide based products are supplied as liquid suspensions.

While selective protein binding is the focus of the surface chemistries, many of our products crossover to other “omic” fields, finding applications in genomics and DNA isolation, and metabolomics.

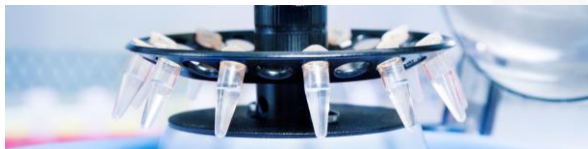
# Sample Prep that Matters

## The BSG Advantage

All of our products have these 4 common features and collective advantages:

### Consumable

Cost-effective, not derived from biologicals



- No specialized instruments or HPLC
- Economical surface chemistries, not derived from biologicals
- No regeneration, so no prep to prep variability
- Simple, fast microfuge bind/wash/elute protocols

### Enrichment / Depletion

Diverse strategies, species agnostic



- Products support strategies for both enrichment of low abundance proteomes, or depletion of high abundance proteins
- Species agnostic, not derived from biologicals

### On-Bead Digestion

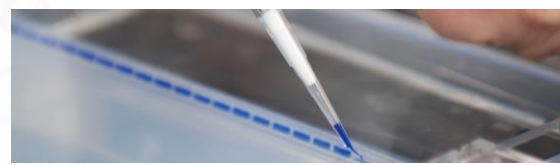
Efficient workflows, quality LC-MS/MS data



- Simple, reproducible workflows
- Equivalent or better than in-solution digestion
- Seamless to LC-MS, no desalting or C18 separations
- Unique proteolytic efficiencies

### Functional Integrity

Maintained throughout all separations



- Mild buffer conditions maintains native structure with retained enzymatic, functional & bio-activities
- Supports enzyme biomarker assays
- Functional & Chemical Proteomics
- Structural & activity-probe Proteomics
- Top-down & ArrayBridge PEP Proteomics

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*Products are for research use only.*



# Albumin Removal Kits

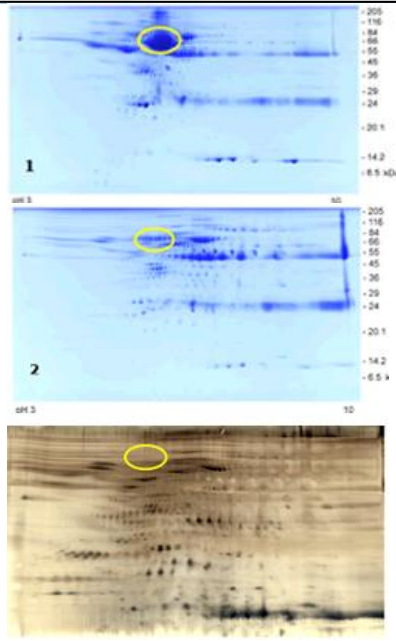
## Enrichment of Low Abundance Serum/Plasma Proteins

### AlbuVoid™

*Selectively Voids Albumin, Binds Low Abundance Proteome*

- Albumin voids in flow >95%
- Transferrin voids >99%
- <30 minute protocol
- Low abundance enrichment equivalent or better than hexa-peptides or antibodies
- On-bead digestion protocols, efficient LC-MS workflows
- Disposable, cost-effective, no column regeneration or cross-contamination
- Mild elution maintains native structure with retained enzymatic, functional & bio-activities
- Species agnostic

2DE analysis of AlbuVoid™ treated sheep serum. Samples were reduced, alkylated and total protein normalized. The circled regions indicate the albumin zone. Gel 1: Sheep serum sample. Gel 2: AlbuVoid™ Eluate. Gel 3: Same as 2 - AlbuVoid™ Eluate but restained with SilverQuest (Invitrogen) silver stain. The differences between the gels illustrate the efficiency of albumin removal, with no intrinsic pI or MW bias.



Product	Size	Item No.
<b>AlbuVoid™</b>	5 Preps	AVK-05
<b>AlbuVoid™</b>	10 Preps	AVK-10
<b>AlbuVoid™</b>	50 Preps	AVK-50

Based on 100-200 µl serum preps

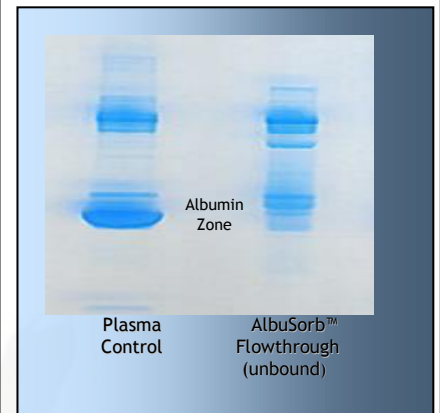
Typical Performance	
Serum Sample Volume	100-200 µl
Albumin Removal	>95%*
LC-MS unique proteins	400-600
LC-MS unique peptides	3000-5000
Total Low Abundance Protein Recovery	>95%*

\* Estimates based on SDS-PAGE visualization combined with Total Protein Assay.

### AlbuSorb™

*Selectively Binds Albumin*

- Removes 30 mg albumin/ml, >90%
- Economical small ligand surface architecture (not dye-based), bio-affinity performance
- Consumable, cost-effective, no column regeneration or cross-contamination
- Species agnostic
- Compatible with
  - LC-MS
  - Chemical
  - Functional proteomics



Product	Size	Item No.
<b>AlbuSorb™</b>	1 gm	A185-1
<b>AlbuSorb™</b>	6 gm	A185-6

1 gm processes 20 preps, 25 µl serum samples

### AlbuVoid™ LC-MS On-Bead

Albumin depletion plus low abundance protein enrichment coupled with optimized on-bead digestion protocols for LC-MS serum and plasma proteomics

- Seamless workflows, unique proteolytic efficiencies
- Label, label free & glyco-compatible
- See page 5 for more information and ordering

### AlbuTrial™ Kit

Don't know which one to try? Try both. AlbuTrial™ kit is a combination of AlbuSorb™ and AlbuVoid™ with respective buffers.

Product	Item #
<b>AlbuTrial™ Kit</b>	AVS-05

The Kit includes:  
1 Gram **AlbuSorb™** beads +  
5 Preps **AlbuVoid™**

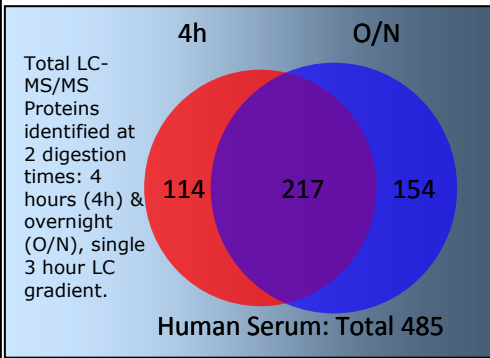


# On-Bead Digestion Kits For LC-MS Proteomics

## AlbuVoid™ LC-MS On-Bead

Albumin depletion plus low abundance protein enrichment coupled with optimized on-bead digestion protocols for LC-MS serum and plasma proteomics

- Seamless workflows
- Unique proteolytic efficiencies
- Label, label free compatible



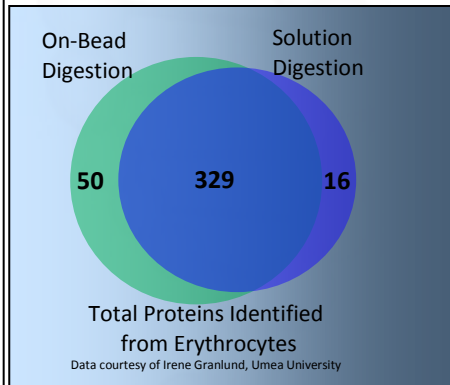
Product	Size	Item No.
<b>AlbuVoid™ LC-MS On-Bead</b>	5 Preps	HVB-MS05
<b>AlbuVoid™ LC-MS On-Bead</b>	10 Preps	HVB-MS10

Based on 50-100 µl serum preps

## HemoVoid™ LC-MS On-Bead

Hemoglobin depletion plus low abundance protein enrichment with optimized on-bead digestion for LC-MS erythrocyte & whole blood proteomics

- Seamless workflows
- Unique proteolytic efficiencies
- Label, label free compatible

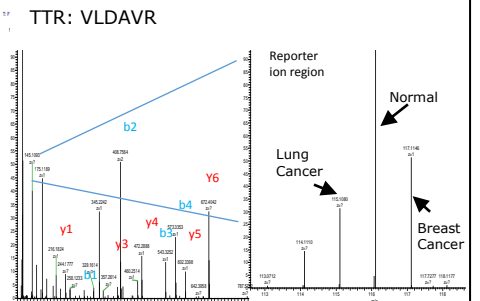
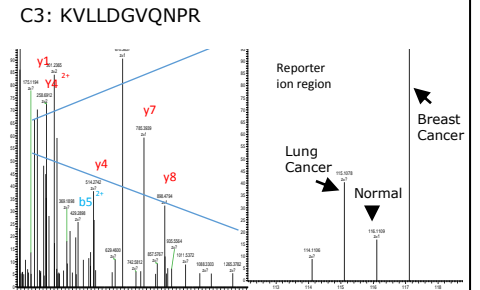


Product	Size	Item No.
<b>HemoVoid™ LC-MS On-Bead</b>	5 Preps	HVB-MS05
<b>HemoVoid™ LC-MS On-Bead</b>	10 Preps	HVB-MS10

Based on 100-200 µl erythrocyte

## Quantitative Efficiency

Label or label-free



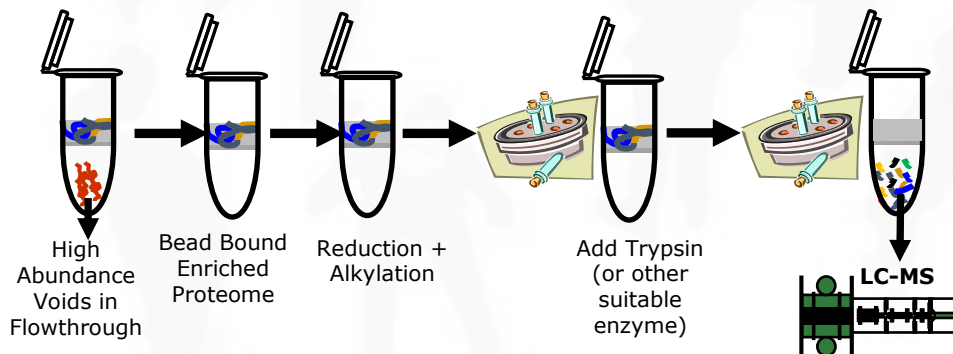
Isobaric (iTRAQ) labeled peptides from two representative proteins observed to be differentially quantified. On the right, the peptide features from the MS2 spectral profile, are magnified to illustrate the differences in reporter intensities between the three sera enriched with AlbuVoid™ and on-bead digested. Top: Complement Component 3 (C3), Bottom: Transthyretin (TTR).

## On-Bead Digestion

Efficient workflows, quality LC-MS/MS data

- Simple, reproducible workflows
- Equivalent or better than in-solution digestion
- Seamless to LC-MS, no desalting or C18 separations
- Unique proteolytic efficiencies
- Label, label-free & phospho/glyco compatible

**High Abundance Depletion + Unique Digestion Efficiencies + Simple Workflows = Better LC-MS Output**



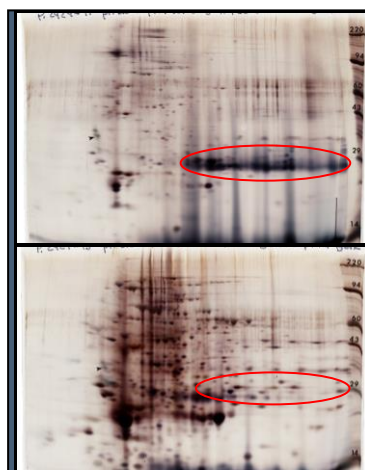


# Hemoglobin Depletion and/or Enrichment

## HemoVoid™

### Hemoglobin Depletion For Erythrocyte Proteomics

- Hemoglobin voids in flow-through >98%
- depletion from heavily hemolyzed serum, whole blood and dried blood spot (DBS) card
- Low abundance protein and enzyme enrichment
- Consumable, cost-effective
- Mild elution maintains native structure with retained enzymatic, functional and bio-activities
- Species agnostic
- Compatible with LC-MS, activity-probe profiling and virtually all proteomic analyses



**2DE Comparison.** Red circles indicate the Hemoglobin subunits region. The HemoVoid™ eluate (bottom) has been severely depleted of Hemoglobin. The remainder of the red cell proteins are substantially enriched (visualized) and are better resolved in the HemoVoid™ eluate. Many more proteins are detectable after HemoVoid™ treatment with extensive proteome coverage across both dimensions.

Product	Size	Item No.
HemoVoid™	10 Preps	HVK-10
HemoVoid™	50 Preps	HVK-50
HemoVoid™	100 Preps	HVK-100

Based on 300 µl preps

## HemoVoid™ LC-MS On-Bead

Hemoglobin depletion plus low abundance protein enrichment with optimized on-bead digestion for LC-MS erythrocyte & whole blood proteomics

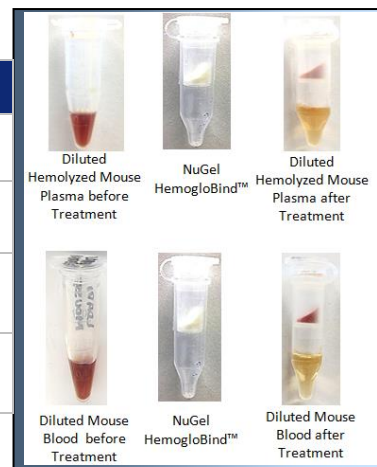
- Seamless workflows, unique proteolytic efficiencies
- Label, label free & phospho- compatible
- See page 5 for more information and ordering

## HemogloBind™ & NuGel™ HemogloBind™ Removes Hemoglobin Interference

- Highly specific for hemoglobin binding
- depletion from hemolyzed serum and whole blood
- applicable to hemoglobin variant analysis
- Functional integrity maintained with simple transfer to post-treatment interrogations
- Species and tissue agnostic
- supports biomarker tests

Product	Size	Item No.
HemogloBind™	15 ml	H0145-15
HemogloBind™	50 ml	H0145-50
NuGel™ HemogloBind™	25 Preps	NP-HO-T25
NuGel™ HemogloBind™	50 Preps	NP-HO-T50

1:1 v:v ratio HemogloBind™ suspension processes up to 10 mg/ml hemolyzed serum



## Hemoglobin Removal Trial Kits

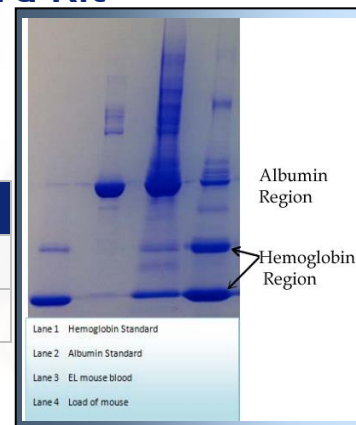
Product	Size	Item No.
HemoTrial™ Kit	5 ml HemogloBind™ + 5 Preps NuGel™ HemogloBind™ + 5 Preps HemoVoid™	HTK-05
HemogloBind™ Trial Kit	5 ml HemogloBind™ + 5 Preps NuGel™ HemogloBind™	HB145K-05

## HemoVoid™ Blood Card Kit

The HemoVoid™ Blood Card kit substantially reduces hemoglobin interference from dried blood spot protein analytes

Product	Size	Item No.
HemoVoid™ Blood Card	10 Preps	HVBC-10
HemoVoid™ Blood Card	50 Preps	HVBC-50

Based on 0.5" dried blood spot, ~ 15 µl whole blood



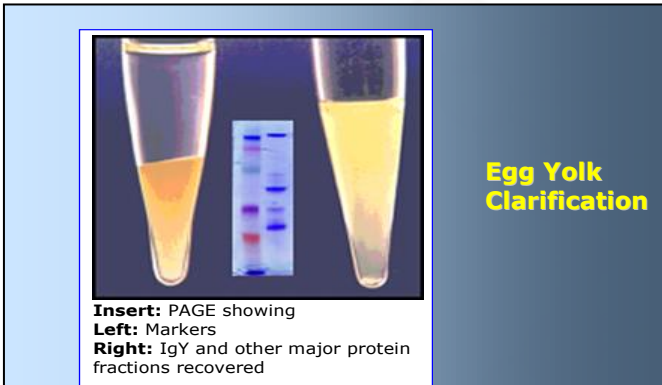


# Sample Preparation

## Cleanascite™

### Lipid Adsorption & Clarification

- Effectively replaces chlorinated/fluorinated hydrocarbons (eg. freon)
- Workflows for antibodies, proteins, nucleic acids, proteoglycans, and most serum analytes
- Ideal for clarifying ascites, serum, cell & tissue culture, and organ homogenates
- Clarifies bile and saliva
- Extensively cited in journal articles
- Extends the life of membrane and chromatographic apparatus.



Product	Quantity (ml)	Process Volume (ml)*	Item No.
Cleanascite™	10	40	X2555-10
Cleanascite™	50	200	X2555-50
Cleanascite™	100	400	X2555-100
Cleanascite™	500	2000	X2555-500
Cleanascite™	1000	4000	X2555-1000

\*Based on typical v:v ratio.

## Surfactaway™ Triton Removal & Surfactaway™ SDS Removal

- Removes >99% detergent
- Very selective, virtually no cross-reactivity with other proteins
- Simple, just pipette, centrifuge and discard pellet
- Economical unique surface technology, not based on hydrophobic chromatography

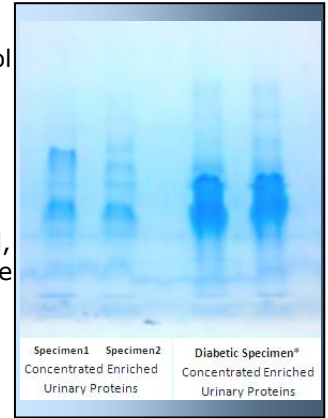
Product	Quantity (ml)	# of preps*	Item No.
Surfactaway™ Triton Removal	30	120	SA890-30
Surfactaway™ Triton Removal	250	1000	SA890-250
Surfactaway™ SDS Removal	30	120	SA645-30
Surfactaway™ SDS Removal	250	1000	SA645-250

\*Based on typical v:v ratio.

## UPCK™ Kit

### Urine Protein Enrichment & Concentration

- Linearly scaleable, unlike ultrafiltration
- Alternative to solvent/alcohol precipitation
- On-bead digestion protocols
- <60 min. bind, wash and elute protocol
- Applicable to >1 & 2 DE > LC-MS > microarrays
- The eluted fractions retain their enzymatic and biological activity



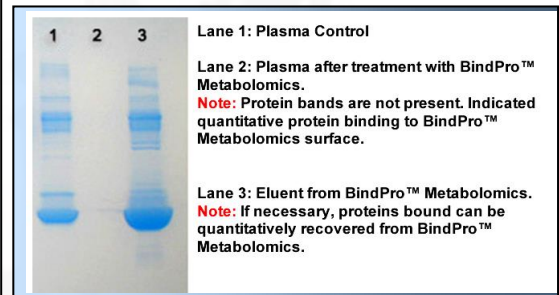
Product	# of Preps	Item No.
UPCK™ Kit	10	UPCK-10
UPCK™ Kit	25	UPCK-25

Based on 10 ml urine samples

## BindPro™ & BindPro™ Metabolomics

### Aqueous Protein Removal & Enrichment of Metabolites & Analytes

- Serum and plasma protein removal, >95%
- Aqueous protein crash
- < 30 minute protocol
- Applicable for drug binding/screening and metabolomics



Product	Qty	Item No.
BindPRO™ Metabolomics	15 Preps*	BPM55-15
BindPRO™ Metabolomics	50 Preps*	BPM55-50
BindPRO™	15 ml	BP355-15
BindPRO™	50 ml	BP355-50

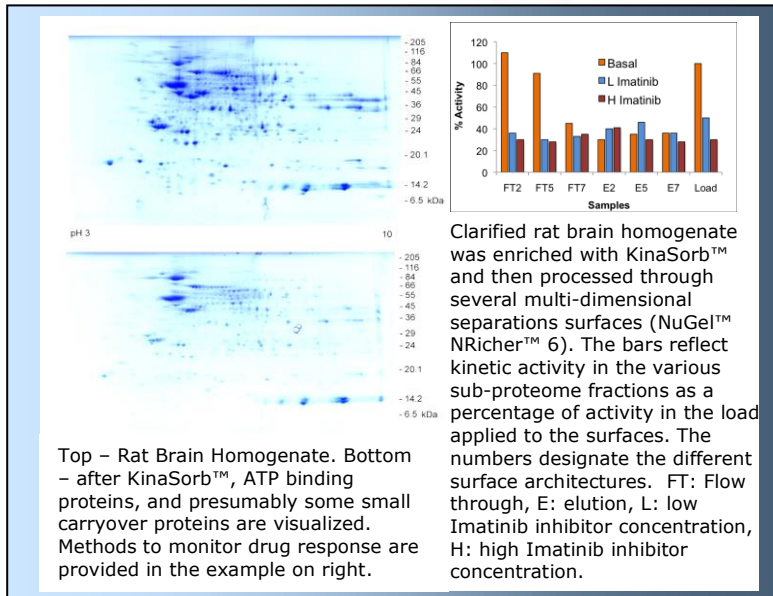
\*Based on 20-30 µl serum



**KinaSorb™**

**Kinase (& ATP binding proteins) enrichment reagent**

- Non-covalent immobilization of phosphate group with optimal nucleotide orientation & specificity
- Enrichment 3-5X, binding protein recoverable, ~200 µg
- 60 minute, scaleable protocol compatible with functional assays, electrophoresis and LC-MS
- Phosphatase activity & cyclic nucleotide phosphodiesterase (PDE) activity not detectable
- Improves protein normalization when comparing heterogeneous tissues
- On-bead digestion protocols for LC-MS IDs



Product	# of preps	Item No.
KinaSorb™ 10	10	KE785-10
KinaSorb™ 50	50	KE785-50

Based on 100 µl tissue homogenate preps

**Viraffinity™ / ViraPrep™ Kits**

**Virus Enrichment & Purification**

- Purifies whole infectious non-enveloped virus, isolates antigenic virions
- Enriches for viral proteins and nucleic acids
- No ultracentrifugation

Product	Size	Item No.
Viraffinity™	15 ml suspension reagent	V1062-15
ViraPrep™ Mammal	For 40 ml cell culture	VPM-40
ViraPrep™ Lambda	For 5, 150 mm plate lysates	VLK-05

**NuGel™ PBA & NuGel™ PBA Kit**

**Glycoprotein Enrichment Using Phenyl Boronic Acid**

- Enriches heterogeneous sets of glycoprotein's, N-linked & O-linked
- Consumable, no column regeneration
- Species and tissue agnostic
- Sorbitol elution; compatible with functional assays, electrophoresis and LC-MS
- Binds biomolecules containing 1,2 cis-diol groups
- Chemically derived, ideal for glyco-proteomic applications
- NuGel™ polymer coating, porous silica based
- Supplied as bead only (dry powder) or as kit (includes all binding and elution buffers)

Sample Type	% Glycoprotein (Sorbitol Elution)
Mouse Plasma	33
Rat Serum	44
Sheep Serum	18
Bovine Serum	40
Bovine Brain Homogenate	9

Product	Qty	Item No.
NuGel™ PBA Kit	10 Preps*	NGPBA-10
NuGel™ PBA Kit	50 Preps*	NGPBA-50
NuGel™ PBA	5 Grams	NPBA-05
NuGel™ PBA	10 Grams	NPBA-10

Based on 50 µl serum preps





# Functional & Chemical Proteomics

## Functional & Top-down Proteomics

*Building sequence/structure/function relationships*

The continuum of protein conformations attributable to post-translational modification and non-covalent interactions produces important functions that cannot be directly or linearly correlated to protein abundance. Thus, functional annotation complements sequence annotation, but relies in part, on the functional or structural features of intact, non-denatured proteins. While the terminology can often overlap, chemical, and activity or structure-based proteomics can be considered a subset of functional proteomics.

The **NuGel™** based **NRicher™** product line supports all functional, chemical and top-down proteomic applications. The functional and structural integrity are always preserved upon separations with **NRicher™** products. So functional protein attributes, as when the same or similar underlying sequence can have multiple conformations and functions, or when different sequences cross-over in function, are now open to investigation. Those aspiring to sift through these biological complexities can apply **NRicher™** products to:

- Annotate multi-functional subproteomes
- Survey drug-interaction protein promiscuity
- Elucidate conformational variants
- Identify phenotypic biomarkers

## NuGel™ NRicher™ Mx Chemical Displacement Proteomics

- Enrich proteomes with weak binding
- Displace bound proteins with small compounds or substrates
- Identify compound interacting proteomes with LC-MS
- Composite of the **NRicher™ 6** mixed mode beads

Protein Description	Caffeine	Imatinib	Neg.Cont.
Hemoglobin subunit beta-1	87	550	53
Glucose-6-phosphate isomerase	192	459	76
Malate dehydrogenase	117	356	35
transketolase	72	160	24
Cytochrome c, somatic	47	123	3
Succinyl-CoA:3-ketoacid coenzyme A transferase	69	122	19
Transgelin	0	84	0
Annexin A2	26	66	0
fumarate hydratase	17	42	2
annexin A3	5	36	0
glutathione reductase	9	36	0

A partial list of LC-MS/MS identification and spectral counts demonstrate Imatinib interaction (displaced) proteins from a common tissue homogenate, using CCDP. Caffeine was employed as a non-specific control compound, negative control was the final wash buffer.

Product	# of preps*	Item No.
<b>NuGel™ NRicher™ Mx</b>	5	SR610-5
<b>NuGel™ NRicher™ Mx</b>	25	SR610-25

\*Based on processing 0.5-1.0 mg total protein

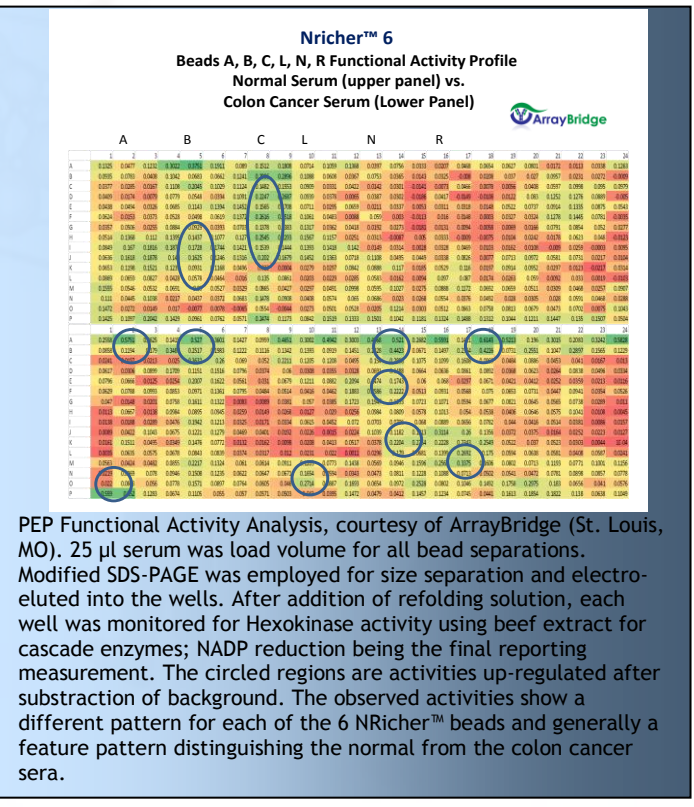
## NuGel™ NRicher™ 6

*Functional proteomics and enrichment kit*

- 12 differentiated subproteomes, 6 flow-through fractions, and 6 elution fractions
- Uncompromised functional and structural attributes
- Compare functional molecular profiles for biomarker discovery
- Enrich low abundance functional biomarkers for sequence and structural annotation
- Kit includes 6 mixed mode bead chemistries per prep
- Top-down proteomics

Product	# of preps*	Item No.
<b>NuGel™ NRicher™ 6</b>	10	SRPRO-10
<b>NuGel™ NRicher™ 6</b>	50	SRPRO-50

\*Based on processing ~1.0 mg total protein.





## NuGel™

Polymer Coated Silica Affinity Matrices for Ligand Immobilization

Product Name	Matrix Reactive Group	Ligand Reactive Group	Immobilization Conditions	Quantity (Grams)	Item No.
NuGEL™ Poly-Epoxy	Terminal Epoxy	Amino	Direct Coupling	25	NPEY-25
NuGEL™ Poly-Amine	Terminal Amine	Carboxylic Acid, Carbohydrate	Carbodiimide reaction, or NaIO <sub>4</sub> derived Aldehyde	25	NPAM-25
NuGEL™ Poly-Aldehyde	Terminal Aldehyde	Amino	Direct Coupling	25	NPAY-25
NuGEL™ Poly-Hydroxy	Terminal Glycol	Amino	Carbodiimidazole mediated reaction	25	NPHX-25
NuGEL™ Poly-Carboxy	Terminal Carboxylic Acid	Amino	Carbodiimide mediated reaction	25	NPCY-25

NuGel™'s unique surface passivation can be applied to any porous silica, particle size or quantity for custom manufacture of ion-exchange, hydrophobic interaction, affinity chromatography or HPLC. Please inquire.

## Genomics / DNA Isolation

Genomic Sample Preparation Products Especially Suitable for BACs and Multiplex SNPs

### ProCipitate™ & ProPrep™ Kits

Superior Substitute to Phenol/Chloroform for DNA Isolation

- Used throughout the Human Genome Sequencing Project\*
- Removes protein contaminants & leaves DNA unbound
- Improves yield of DNA over alternative bind and elute systems
- ProCipitate™ supports the ProPrep™ line of application specific kits

Sample Size	ProCipitate™ Typical Usage
10 ml Yeast Culture Genomic DNA	1-2 ml
Whole Blood Genomic DNA	250 µl
4 mm Plant Leaf	100-200 µl
2 ml culture BAC Preps	80 µl
250 µl culture Plasmid Preps	20 µl
200 ml Large Scale BAC Preps	5 ml
Dried Blood Card (or ~ 15 µl Whole Blood)	250 µl

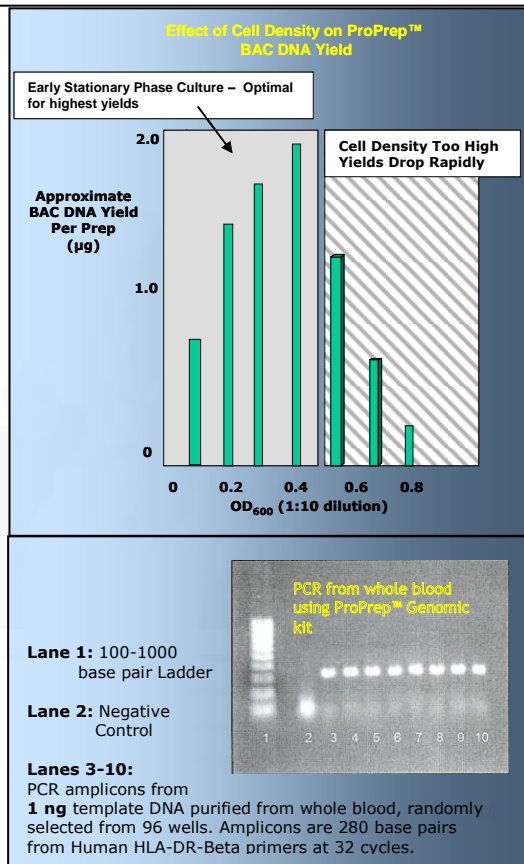
Product	Size	Item No.
ProCipitate™	30 ml	P0050-30
ProCipitate™	100 ml	P0050-100
ProPrep™ BAC Mini <sup>1</sup>	100 preps	PMK-100
ProPrep™ Genomic <sup>2</sup>	100 preps	PPG-100

- 1) Based on 2 ml BAC cultures
- 2) Based on 50 µl whole blood

\*References

J M Kelley; C E Field; M B Craven; D Bocskai; U J Kim; S D Rounsley; D Adams. *High Throughput Direct End Sequencing of BAC Clones*. Nucleic Acids Research. 1999.15;27(6):1539-1546

D C Bruce; M O Mundt; K K McMurry; L J Meincke; D L Robinson; N A Doggett; L L Deaven. *BAC Library End Sequencing in Support of Whole Genome Assemblies* DOE Joint Genome Institute and Center for Human Genome Studies, Los Alamos National Laboratory, Research Abstracts from the DOE Genome Contractor-Grantee Workshop IX (2002)



## Distributors for Asia Pacific

### Japan



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9-7 Hongo 2-Chome  
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Tel: 81-3-5684-1620  
E-mail (Technical Support):  
[reagent@funakoshi.co.jp](mailto:reagent@funakoshi.co.jp)  
Website: [www.funakoshi.co.jp](http://www.funakoshi.co.jp)

### Taiwan



### China



### China

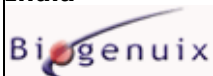


### China



[DMD Shengchuang Biotech Co. Ltd](http://www.dmdshengchuangbiotech.com)  
Suzhou, China  
Phone: 86-0512-62790305  
Email: [info@shengchuangbio.com](mailto:info@shengchuangbio.com)

### India



[Biogenuix](http://www.biogenuix.com)  
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Email: [sundeep@biogenuix.com](mailto:sundeep@biogenuix.com)  
Website: [www.biogenuix.com](http://www.biogenuix.com)

### Singapore



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