

SKYLUX™ Low-Protein-Binding-PP

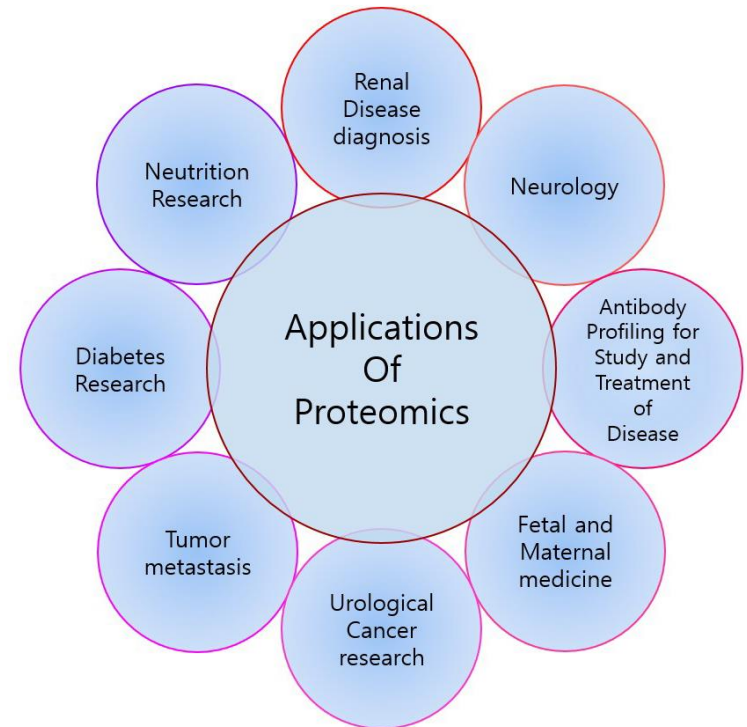
Less Lost Protein
For More Reliable Proteomics

SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

Proteomics & Protein research

- * Proteomic is a growing field of interest.
- * To study protein function is often possible to know the effect of a particular protein on development or a physiological function by introducing it into an organism.
- * The rising impact of proteomics on clinical and industrial research, academic and research institutions are integrating proteomics as an important parts of their course curriculum.



SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

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Protein Research

A major issue faced is the loss of protein to polypropylene tubes, as well to other plastic containers.

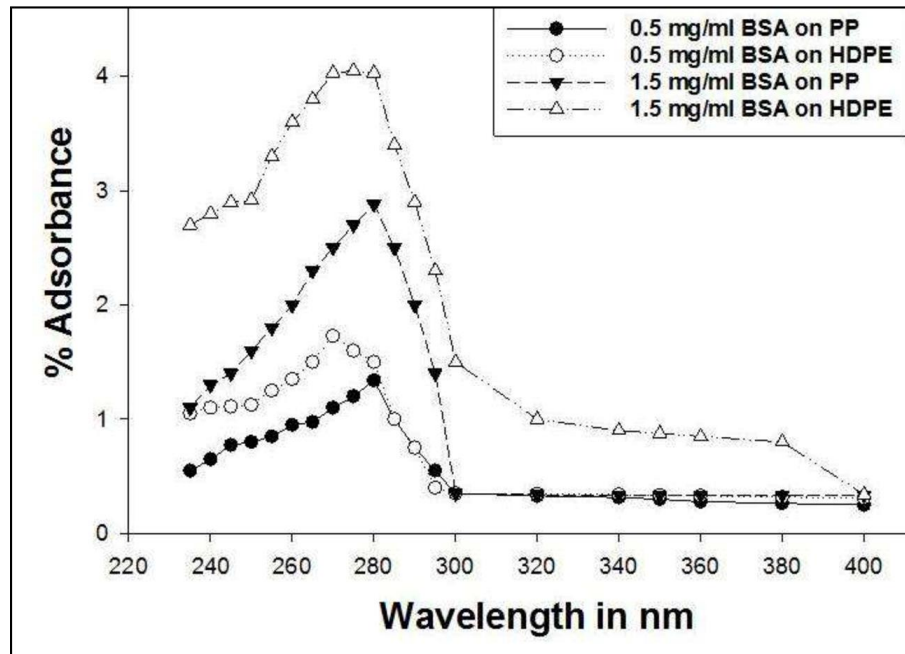


Chart : <https://www.semanticscholar.org>

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A study found :

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Protein adsorption properties are varies on different plastic resins

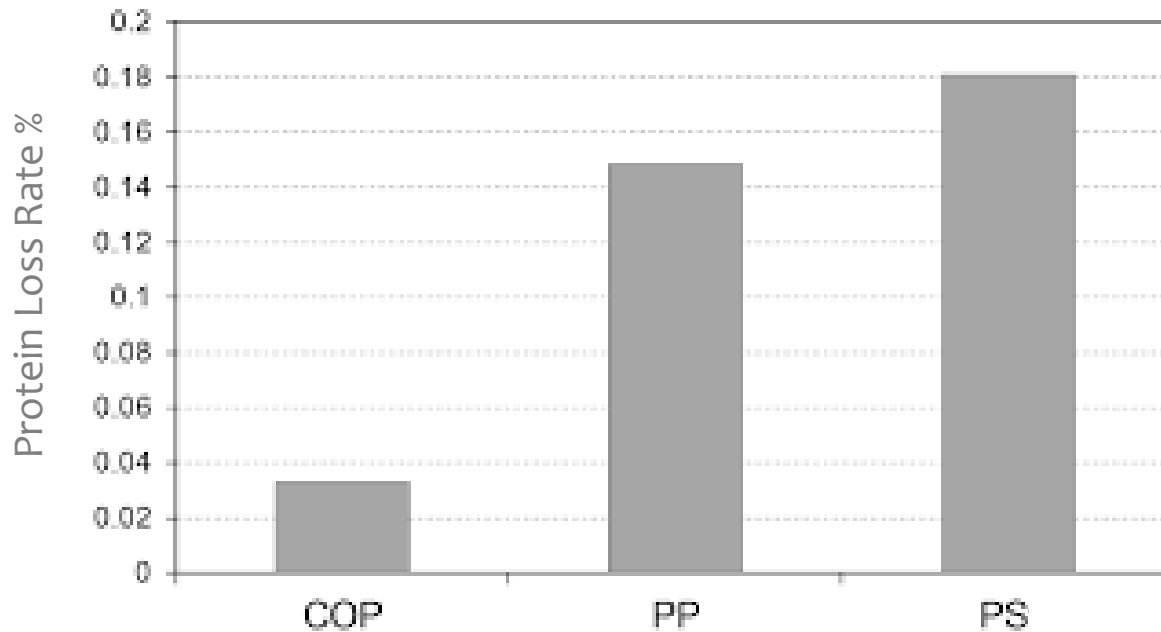
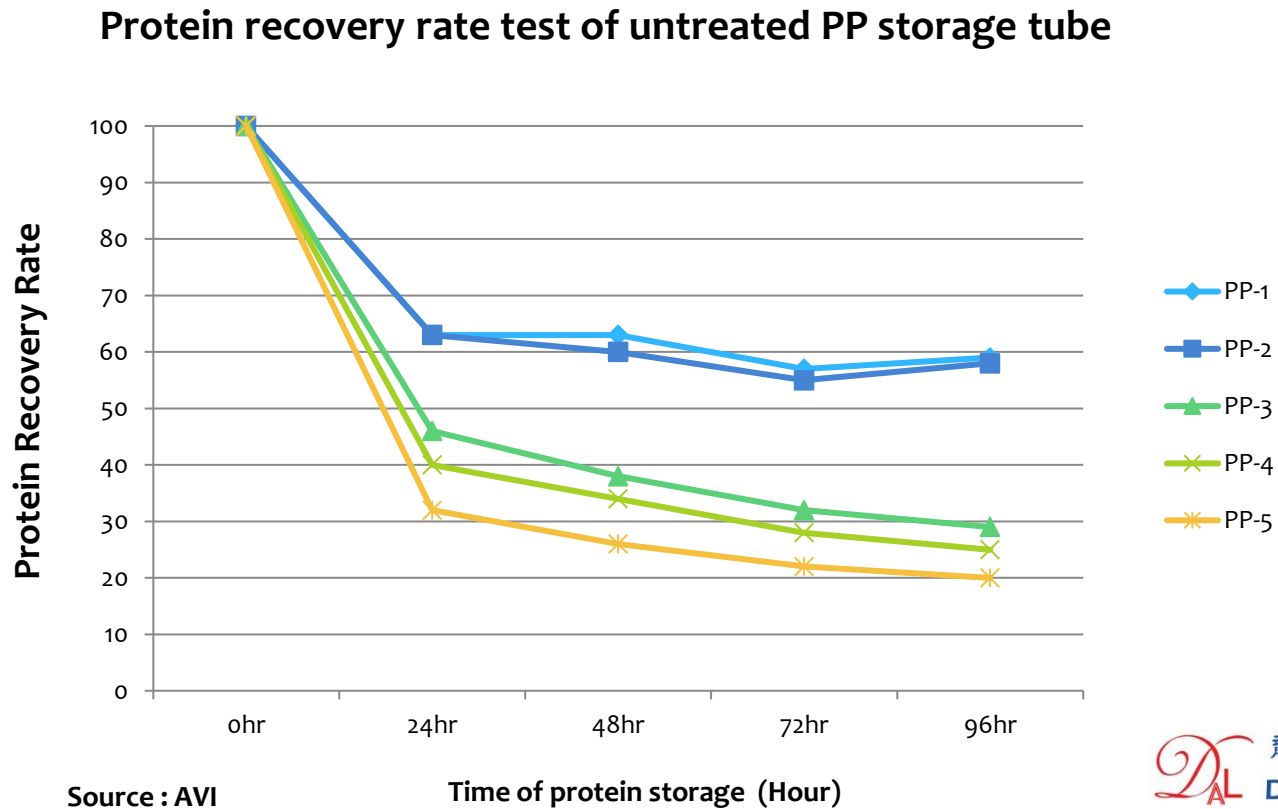


Chart : <https://jpharmsci.org>

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Study Result : Protein recovery rate is low at 20%
on an untreated PP storage tube after 96 hours



SKYLUX™ Low Protein Binding PP

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Innovative product

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SKYLUX Low-Protein-Binding Polypropylene(PP) Resin is developed by DragonChem Limited

With SKYLUX Low-Protein-Binding-PP Resin, protein recovery rate of consumables for proteomics and protein research could be maximized and consequently protein loss could be minimized

Benefits with SKYLUX Low-Protein-Binding-PP

- ✓ No post-treatments are needed on end-products
- ✓ No additives are needed on consumable manufacturing
- ✓ Conventional injection machines can be used
- ✓ Conventional mold can be used
- ✓ PFAS-free & Phthalates-free
- ✓ Low extractables

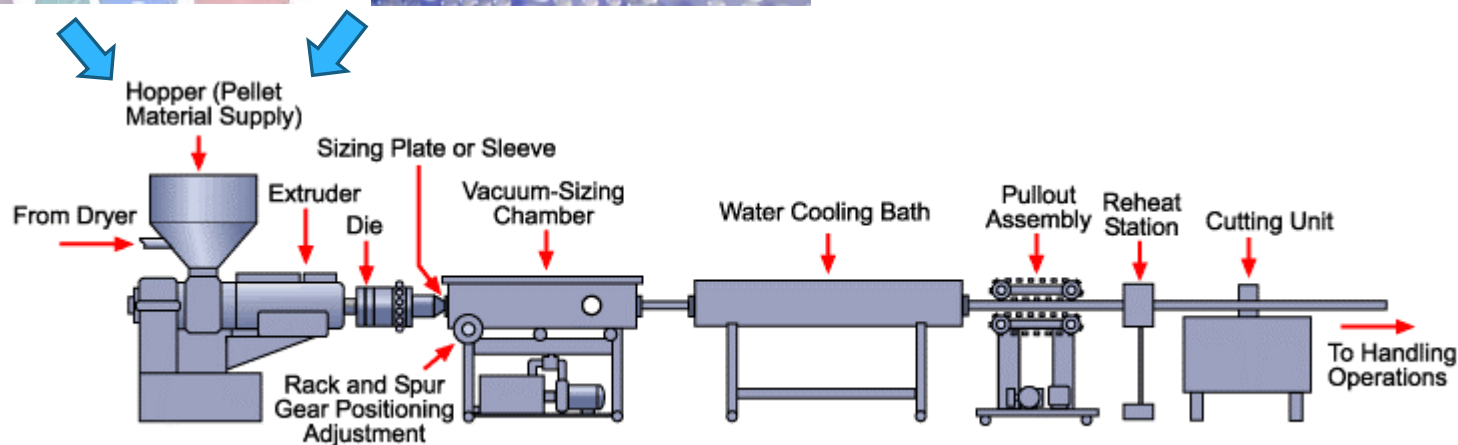
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Innovative Technology (Patent Pending)



SKYLUX PP low protein binding PP is a re-engineered polymer in formulation



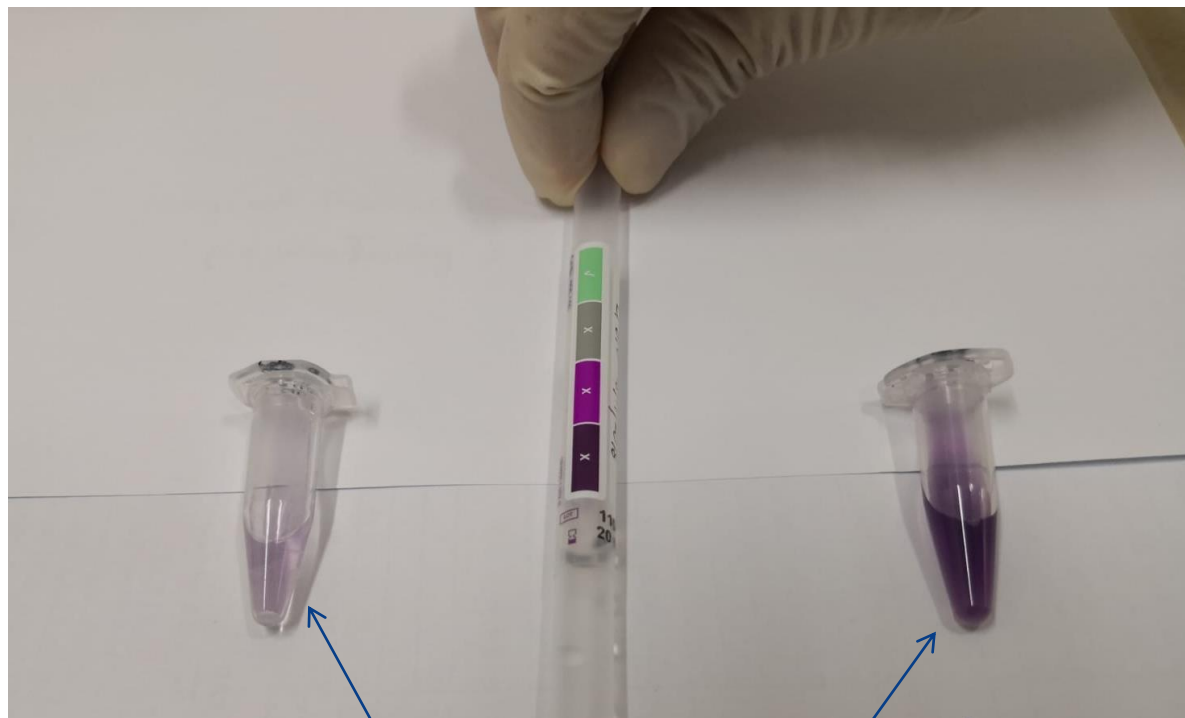
SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

Innovative technology : Test Result

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Protein Stain Quick Test for 10minutes
(The darker color the more protein residual are)



Tube made of SKYLUX LP810

Low Protein Binding Tube in the market



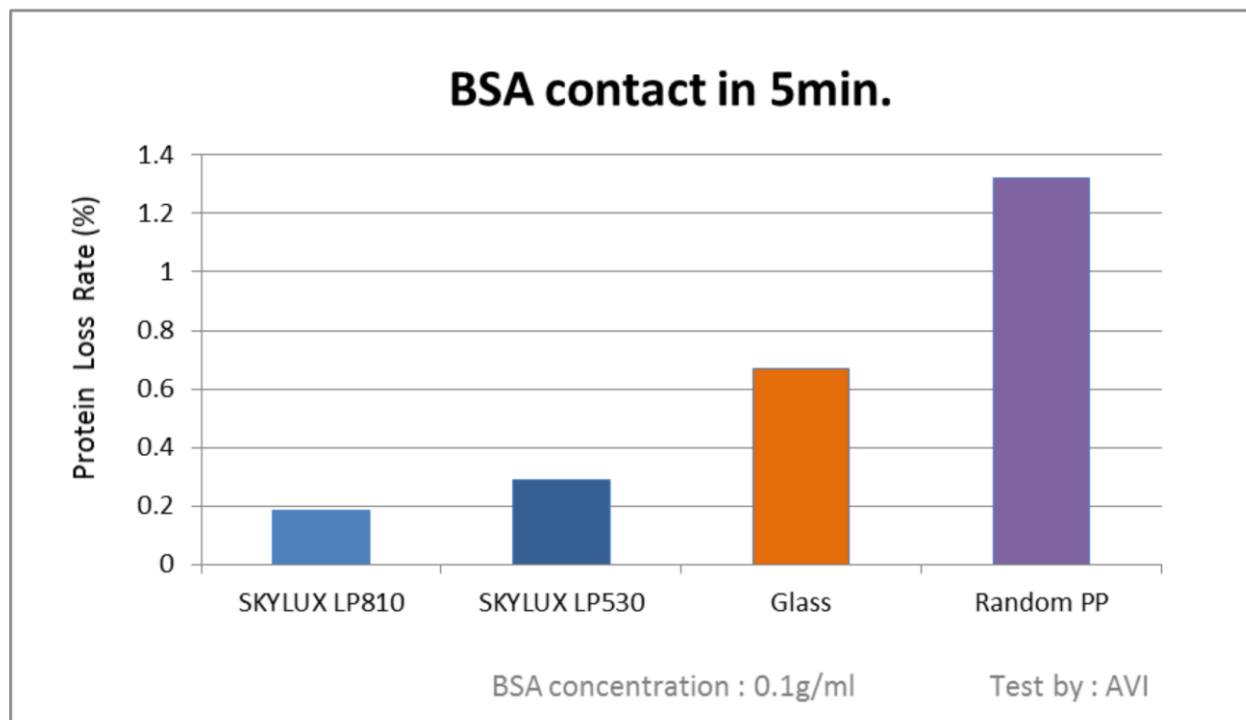
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Innovative technology : Test Result

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BSA Adsorption Study on chip samples



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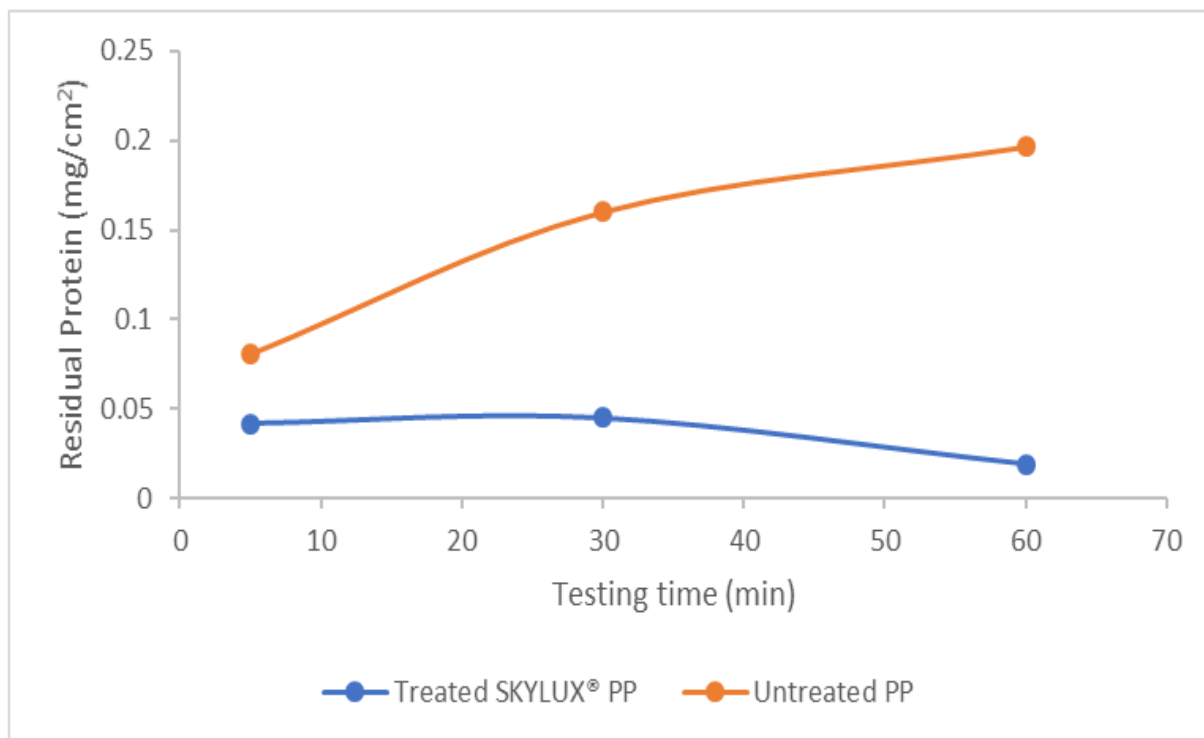
Innovative technology : Test Result

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BSA Adsorption Study on chip samples

(concentration : 0.124g/ml)

Test by : AVI



SKYLUX™ Low Protein Binding PP

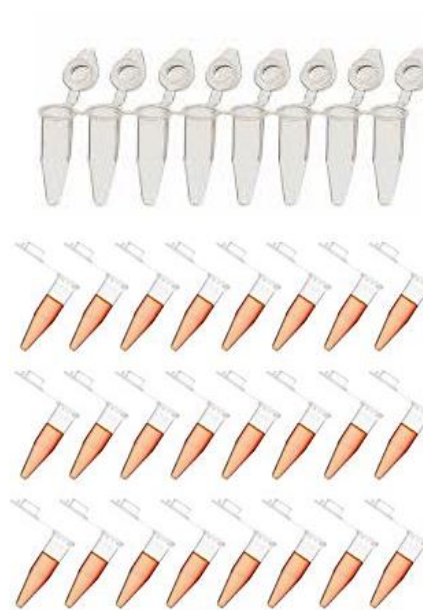
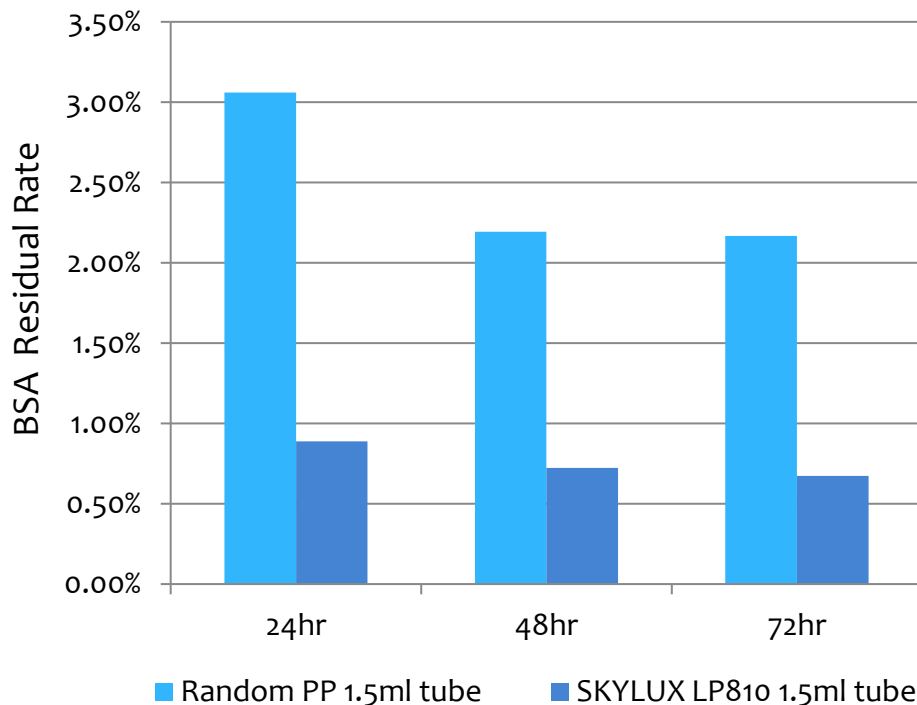
Less Lost Protein For More Reliable Proteomics

Innovative technology : Test Result

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BSA Adsorption Study (Average result of 10 tubes)

(BSA Concentration : 1mg/ml)



Tested by AVI

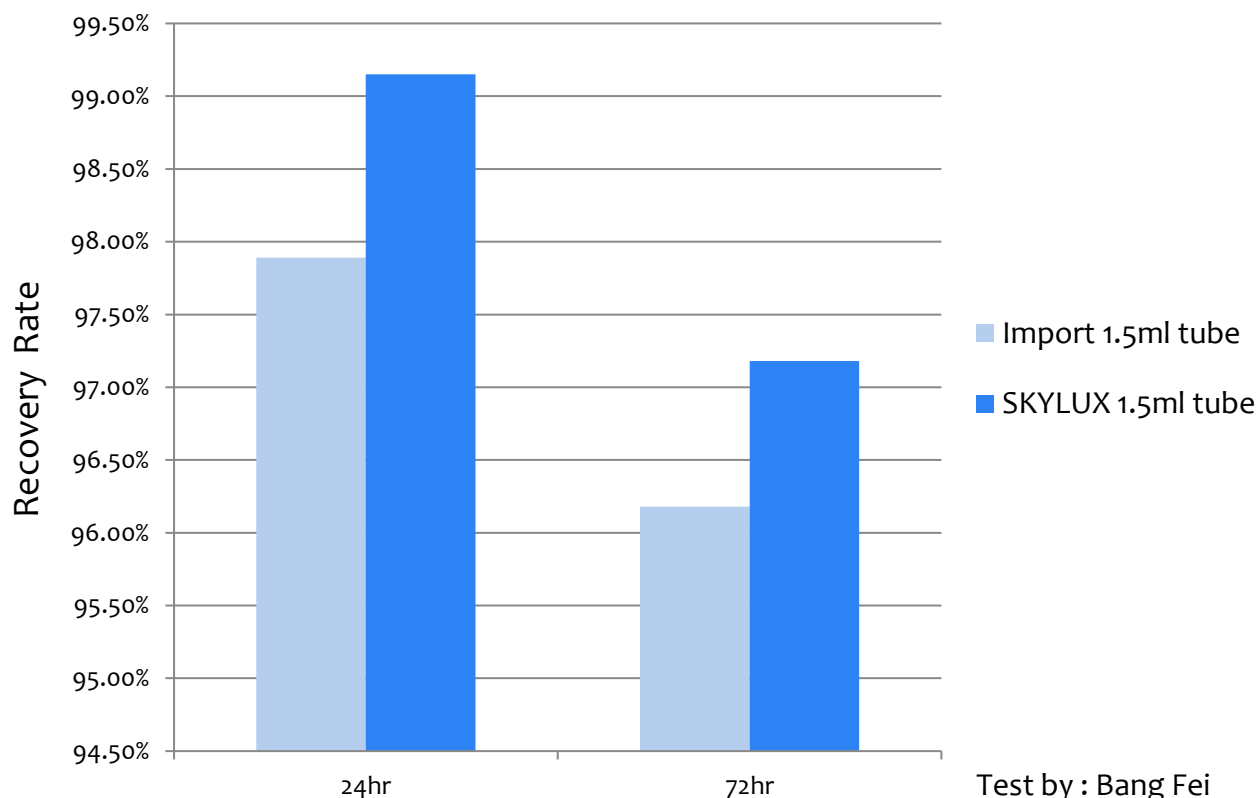
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Less Lost Protein For More Reliable Proteomics

Innovative technology : Test Result

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Nanodrop BSA Recovery Study on 1.5ml tubes



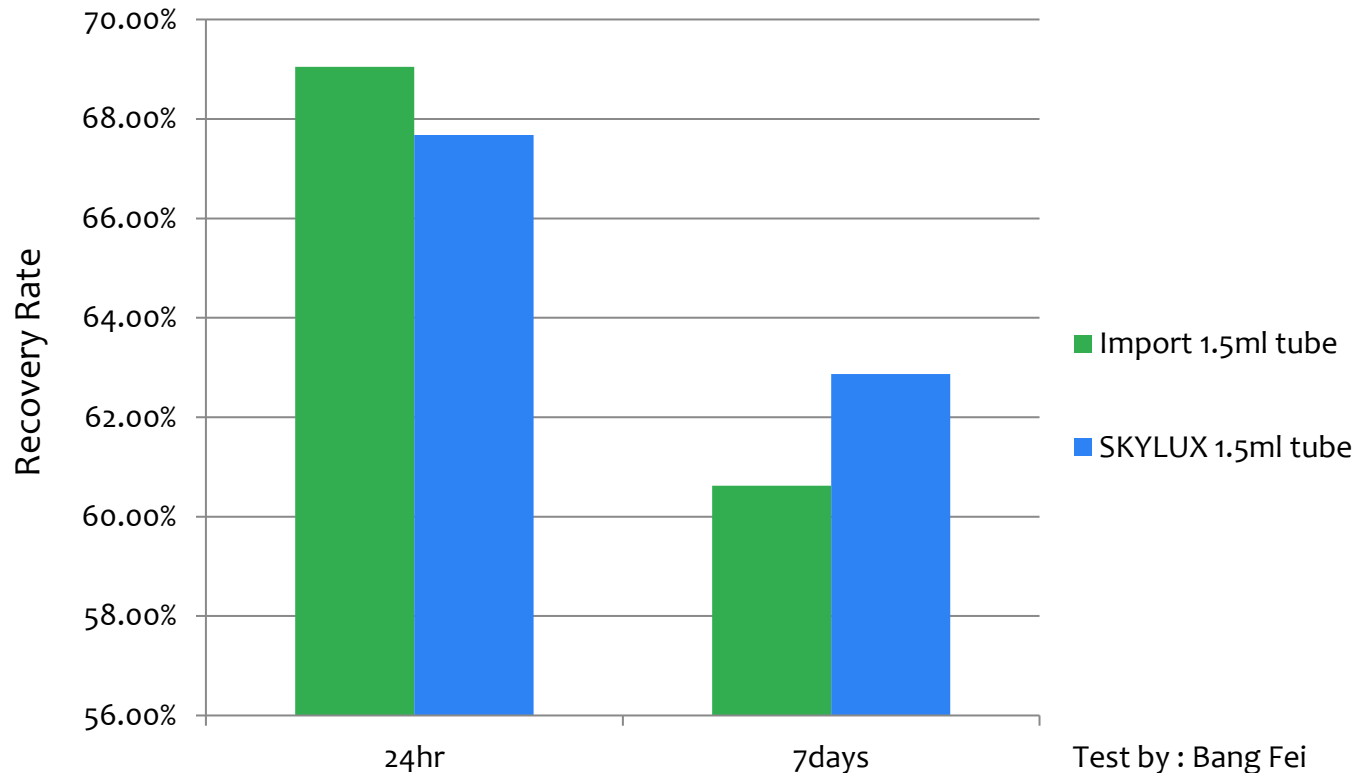
Test by : Bang Fei

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Innovative technology : Test Result

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Bradford BSA Recovery Study on 1.5ml tubes



Test by : Bang Fei

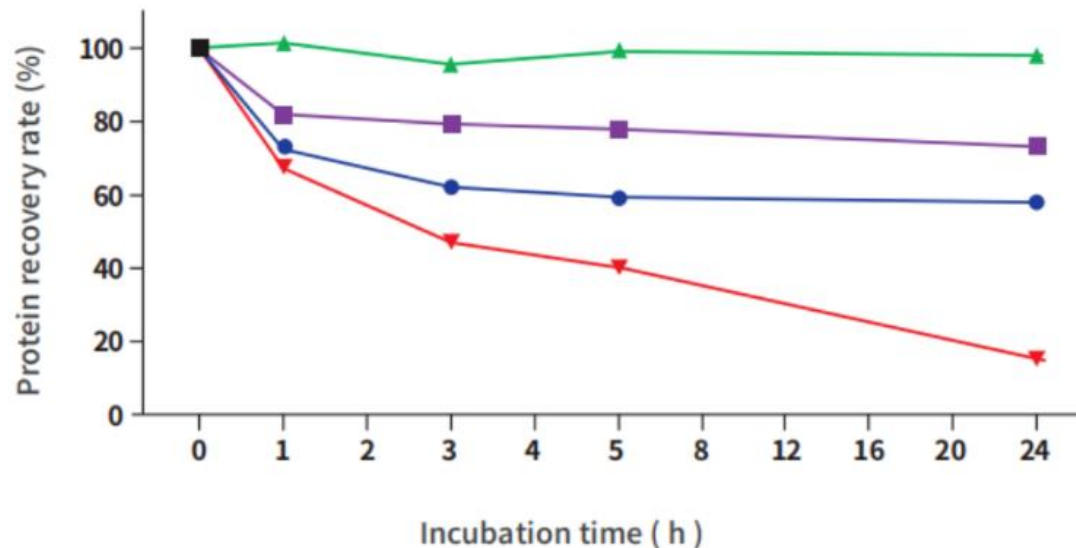
SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

Innovative technology : Test Result

Quantitative Fluorescence Analysis

Recovery rate of proteins after incubation
for 24h in low binding tubes (4°C)
(1μg/ml FITC-IgG)



- SKYLUX PP
- Competitor A
- Competitor B
- Untreated PP

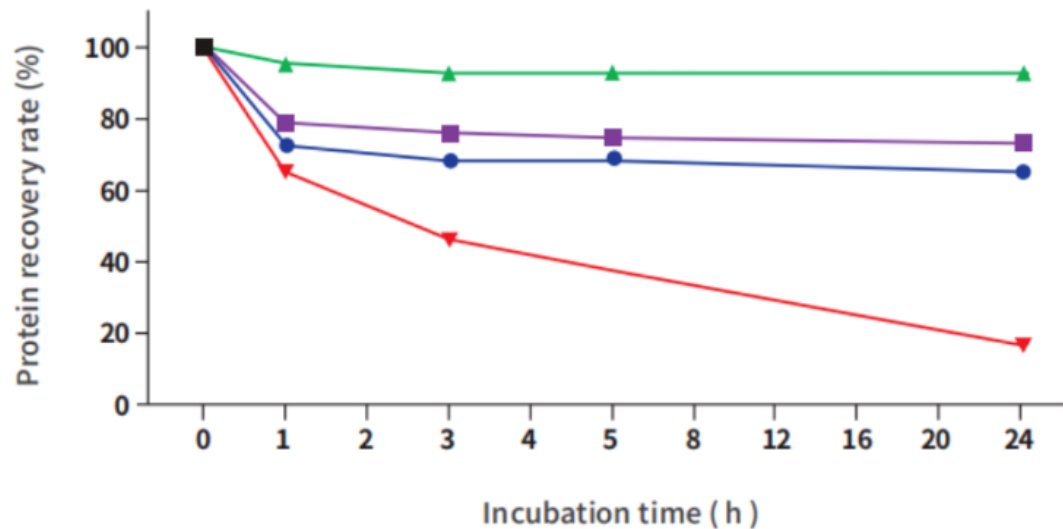
SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

Innovative technology : Test Result

Quantitative Fluorescence Analysis

Recovery rate of proteins after incubation
for 24h in low binding tubes (RT)
(1 μ g/ml FITC-IgG)



- SKYLUX PP
- Competitor A
- Competitor B
- Untreated PP

SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

Selection of SKYLUX Low Protein Binding PP

Grade No.	Melt Flow*	HDT(°C)	Potential applications
LP801	1	60	Large size reagent bottle/tank
LP810	10	95	Microfluidic chip/kit, Centrifuge tubes/containers
LP818G	15	95	Gamma resistant IVD & laboratory consumables
LP833	33	86	IVD & laboratory consumables
LP525G	25	117	Gamma resistant IVD consumables
LP675	73	117	Filter cartridge, Deep well plates

* g/10 min., 230°C/2.16kg

SKYLUX™ Low Protein Binding PP

Less Lost Protein For More Reliable Proteomics

Application of SKYLUX Low Protein Binding PP

1.5ml & 2.0ml Low Protein Binding Micro Centrifuge Tubes
made with SKYLUX LP810



Source : www.bangfeibio.com

Characteristics :

- ✓ High protein sample recovery rate
- ✓ Free of surface coating
- ✓ Free of DNA、DNase、Rnase
- ✓ Free of PCR inhibitors
- ✓ Centrifuge speed up to 30,000RCF
- ✓ Autoclavable & Disposable

SKYLUX™ Low Protein Binding PP Less Lost Protein For More Reliable Proteomics

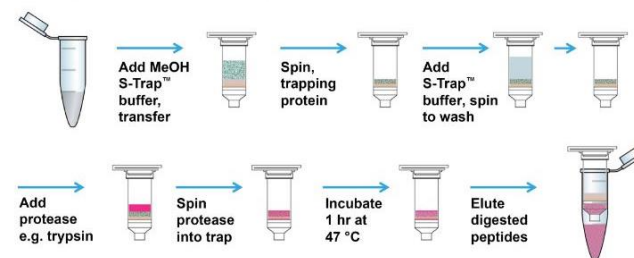
Potential application of SKYLUX Low Protein Binding PP

Preparation and/or Storage for
Proteins, Peptides, Antibodies ...



Photo : <http://proteomicsnews.blogspot.com> , www.pasteur-kh.org

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SKYLUX™ Low Protein Binding PP Less Lost Protein For More Reliable Proteomics

Potential application of SKYLUX Low Protein Binding PP

Housing of Low Protein Binding Cartridge/Syringe Filters for better performance



Photo : <http://www.hqoptimalfilters.com>



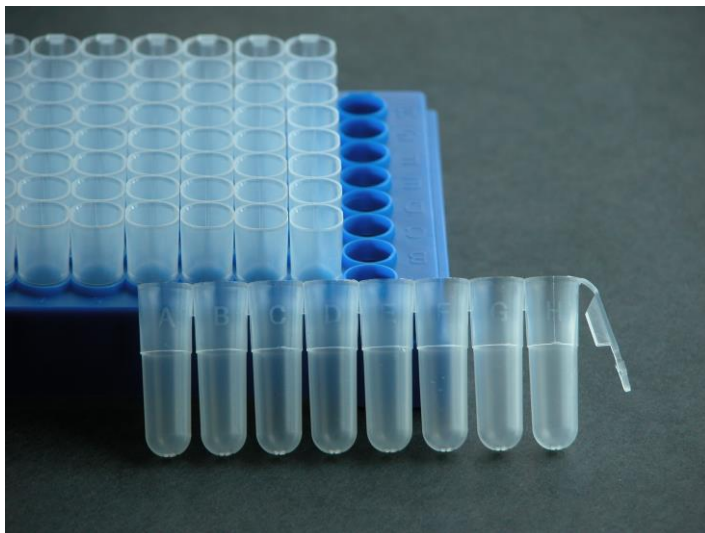
Photo : www.jetbiofil.com

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SKYLUX™ Low Protein Binding PP Less Lost Protein For More Reliable Proteomics

Potential application of SKYLUX Low Protein Binding PP

Consumables for protein purification and isolation researches

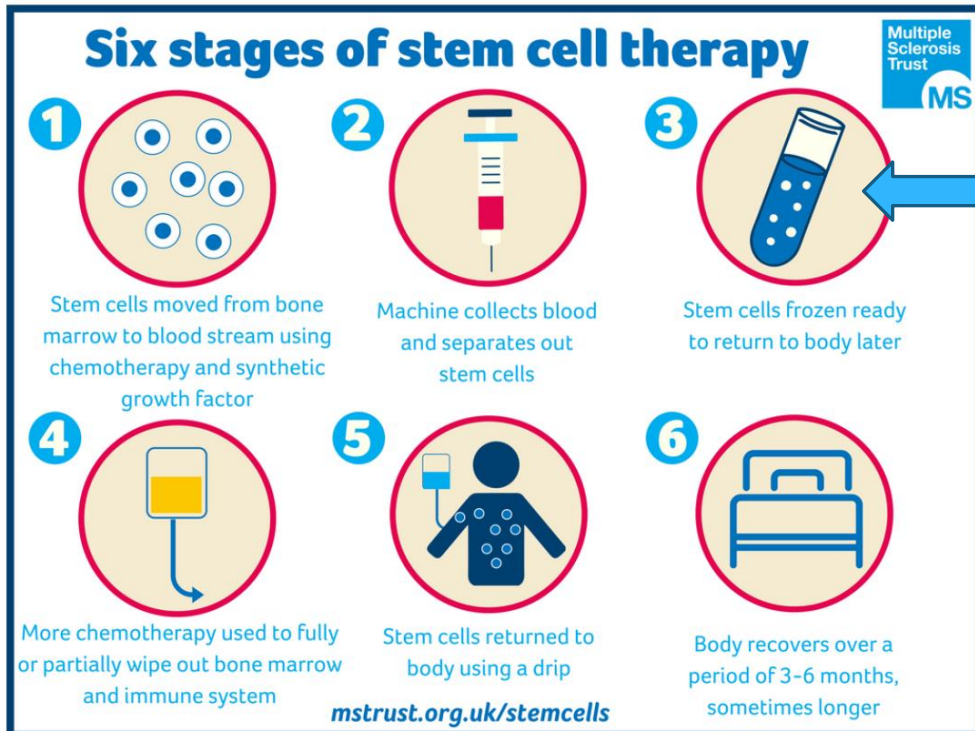


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SKYLUX™ Low Protein Binding PP

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Potential application of SKYLUX Low Protein Binding PP



Immune Cell & Stem Cell storage :

To ensure the function and activity of the cells are not significantly affected

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Application development of SKYLUX Low Protein Binding PP
for your need !



Collaboration

Win-Win

SKYLUX™ Low Protein Binding PP

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