



# Fast & Simple Protein Extraction Solution

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[www.101Bio.com](http://www.101Bio.com)

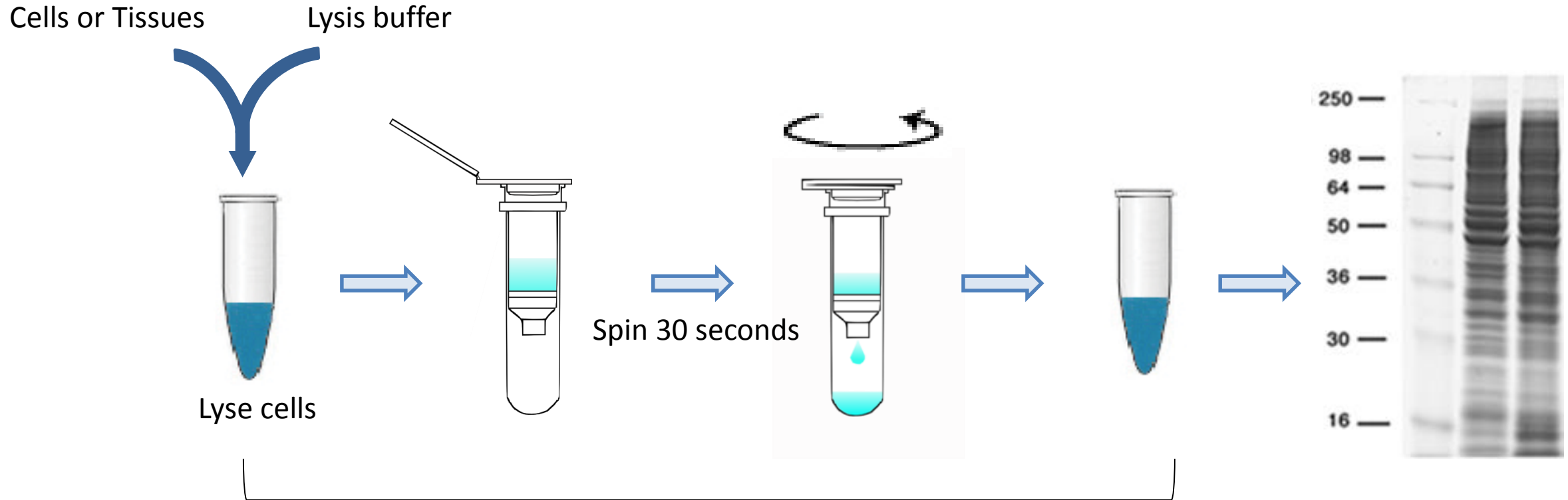


# Comprehensive Solutions for Protein

- **Membrane protein, nuclear protein, mitochondria protein, bacterial protein and plant protein**
- Save hours of bench work
- Very user friendly
- No protein lost
- Small sample size

"Customers always re-order once tried."

# Filter column technology saves your time



Super Fast, no Dounce, no protein lost



# Most Popular Kits

- Plasma membrane protein extraction (P503)
  - Separates: plasma membrane, organelle membrane, cytosol and nuclei.
- Total protein extraction
  - Animal cells (P501)
  - Animal tissues (P502)
  - Plant protein (P508, P510)
- Cytoplasmic & Nuclear Extraction (P504)
- Chloroplast Isolation (P511)



# Plasma Membrane Protein Kit

- Fast – <45 min protocol
- Keeps protein-protein interaction
- True native: detergent/EDTA-free
- Separate native cell fractions:
  - ✓ Plasma membrane
  - ✓ Organelle membrane
  - ✓ Cytosol
  - ✓ Nuclei
- Low starting material



# Advantages of Plasma Membrane Protein Kit

	101Bio	Qiagen	Thermo	Abcom
Detergent-free	✓	×	×	×
Yield	High	Low	Low	Low
Keep protein-protein interaction	✓	Disrupt	Disrupt	?
Easy to handle	✓	×	×	×



# Total Protein Extraction Kits (P501/P502)

- Fast (<1 min for denatured protein)
- No protein loss
- high yield (2-8 mg/ml)
- Simple – No sonication, boiling, and freeze/thaw cycles
- Small sample size
- Option to extract denatured and native proteins
- Detergent-free buffer system available (P505/P506)



## Advantages of Total Protein Extraction Kits (P501/P502)

	101Bio total protein kits	RIPA buffer
Procedure time	1 ~ 5 minutes	20 ~ 30 minutes
No protein lost	✓	×





## Total **Plant Protein** Extraction (P508/P510)

- Fast – less than 5 minutes
- Suitable for **leaves, seeds, soft stem** and **roots**
- Small sample size (20~200 mg)
- High yield (2~6 mg/ml)
- Option to extract denatured and native proteins
- Detergent-free buffer system available (P510)



# Advantage of Total Plant Protein Extraction (P508/P510)

	101Bio Plant Protein Kit	Sigma Kit
Procedure time	< 5 min.	> 60 min.
No liquid nitrogen	✓	×
No need motor and pestle	✓	×
No organic solvents	✓	×



# Chloroplast Isolation Kit (P511)

- **Intact chloroplast**
- Suitable downstream DNA isolation

	101Bio Chloroplast kit	Sigma kit
Required material	10 ~ 200 mg	> 30,000 mg
Procedure time	5 min.	> 40 min.



## Cytoplasmic & Nuclear Extraction Kit (P504)

- Fast – < 10 minutes **vs.** Thermo kit takes ~ 60 min.
- Efficient separation
- High yield – you get 50% more than other kits
- Native proteins



- Our pipeline is still growing, tell us what you need. We will develop handful tools for you.