

Urea/Thiourea Solubilization/Rehydration Buffer

Part #0070-4019, 10 x 1 ml

Genomic Solutions' Urea/Thiourea Solubilization/Rehydration Buffer has been designed as a solution for pre-IEF sample preparation. This solution solubilizes proteins and acts as a vehicle to transfer to the IPG strip or tube gel.

Shelf Life:

- Storage: -70°C
- Stability: 1 Year

Reagent	Final Concentration
Urea	7 M
Thiourea	2 M
CHAPS	2%
DTT	65 mM
Zwittergent	1%
Bromophenol Blue	0.01%
Ampholytes (pH 3-10)	0.8%

pH ~ 8.0

Avoid salt concentrations higher than 20 mM. Wear gloves when handling IPG strips:

1. Combine up to 1 mg sample protein with Urea/Thiourea Solubilization/Rehydration Buffer to final volume of 400 µl
2. Evenly distribute mixture into appropriate size pHaser tray
3. Carefully peel off the protective film from the acidic end (colored) of the pHlash IPG strip
4. Place the strip (gel side down) into the sample mixture with the anodic end (colored) toward the anode (arrow-shaped end of the groove in the tray). Be sure the strip makes even contact with the solution along the entire length and that bubbles are not present.
5. Place the tray in an airtight bag with moistened filter paper and rehydrate at room temperature for a minimum of 16 hours.
6. Remove tray and insert into pHaser running system housing.
7. Cover strip with 2 ml non-conducting oil
8. Focus according to protocol in the pHaser running system manual

Related Products:

Non-conducting oil #0080-0233, 50 ml
 Equilibration Buffer I #0080-0233, 50 ml
 Equilibration Buffer II #0080-0232, 50 ml
 pHlash IPG strips, variety-please inquire
 Pre-cast tube gels, variety-please inquire
 Pre-cast second dimension gels, variety-please inquire

Genomic Solutions offers a complete line of electrophoresis products, pre-cast gels, and gel stains.