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A Geno Technology, Inc. (USA) brand name

# FOCUS™ Extraction Buffers

## Trial Kit

## (Cat. # 786-234)

## INTRODUCTION

The FOCUS Extraction Buffers are proprietary modifications of well-studied protein solubilization and IPG-strip re-hydration buffers designed to produce better spot resolution for 2D gel analysis. Depending on the nature of your samples, one of the following buffers will be suitable for most of your applications. The Extraction Buffer-I and II are suitable for most applications; however, for stronger solubilization effects, the Extraction Buffer-III, -IV, -V or -VI may be used. The FOCUS™ Extraction Buffer Trial Kit is designed for those who prefer to experiment for establishing a suitable extraction and solubilization buffer for their protein samples. The trial kit consists of one each of the FOCUS Extraction Buffers I-VI with their corresponding DILUENT.

## ITEM(S) SUPPLIED (Cat. # 786-234 )

| Description | Composition | Size |
|---|---|---|
| FOCUS™ Extraction Buffer-I | Urea plus NP-40 | For 10ml (5.0g) |
| FOCUS™ Extraction Buffer-II | Urea plus CHAPS | For 10ml (5.0g) |
| FOCUS™ Extraction Buffer-III | Urea, Thiourea, ASB-16 plus CHAPS | For 10ml (5.0g) |
| FOCUS™ Extraction Buffer-IV | Urea, Thiourea, SB 3-10, plus CHAPS | For 10ml (5.0g) |
| FOCUS™ Extraction Buffer-V | Urea, Thiourea, plus CHAPS | For 10ml (5.0g) |
| FOCUS™ Extraction Buffer-VI | Urea, Thiourea, NDSB 201, plus CHAPS | For 10ml (5.0g) |
| DILUENT-I | NP-40 | 7ml |
| DILUENT-II | CHAPS | 14ml |
| DILUENT-III | CHAPS | 12ml |

## STORAGE CONDITION

The kit is shipped at ambient temperature. Upon arrival, store FOCUS Extraction Buffers at room temperature and DILUENTS at 4°C.

## PROTOCOL

1. Hydrate the supplied FOCUS Extraction Buffers I to VI by adding 5.57ml or 5.0ml of specific DILUENT. Add the specified DILUENT (as per the table on page 2) directly into the corresponding FOCUS Extraction Buffer bottle.
   **OPTIONAL:** Smaller volume can also be prepared by using 1g of dry powder mix with 1ml or 1.15ml specific DILUENT as per table on page 2.
2. Add needed agents such as reducing agents, inhibitors, carrier ampholyte, Bromophenol blue dye, etc.
3. Mix periodically by vortexing and incubate at room temperature until you have a clear solution.

***NOTE:*** *Extraction Buffer-IV might require warming for a short period at 25-30°C (water bath).*

4. Use of only freshly hydrated FOCUS Extraction Buffer is highly recommended. However, any unused buffer can be stored in small aliquots (1-2ml) at -20°C.
5. The following table shows the type of DILUENT to use with FOCUS Extraction Buffers I to VI:

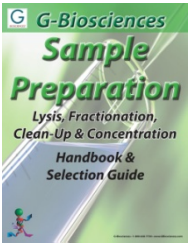
| **FOCUS™ Extraction Buffer** | **Volume of DILUENT** | **DILUENT** | **W/V Ratio of FOCUS™ Extraction Buffer & DILUENT** |
|---|---|---|---|
| FOCUS™ Extraction Buffer-I | 5.75ml | I | 1g/1.15ml DILUENT-I |
| FOCUS™ Extraction Buffer-II | 5.75ml | II | 1g/1.15ml DILUENT-II |
| FOCUS™ Extraction Buffer-III | 5.0ml | III | 1g/1ml DILUENT-III |
| FOCUS™ Extraction Buffer-IV | 5.0ml | III | 1g/1ml DILUENT-III |
| FOCUS™ Extraction Buffer-V | 5.75ml | II | 1g/1.15ml DILUENT-II |
| FOCUS™ Extraction Buffer-VI | 5.0ml | III | 1g/1ml DILUENT-III |

## ORDERING INFORMATION

| **Cat #** | **Description** | **Size** |
|---|---|---|
| 786-220 | **FOCUS™ Extraction Buffer-I** (25g) with **DILUENT-I** (30ml) | For 50ml |
| 786-221 | **FOCUS™ Extraction Buffer-II** (25g) with **DILUENT-II** (30ml) | For 50ml |
| 786-222 | **FOCUS™ Extraction Buffer-III** (25g) with **DILUENT-III** (30ml) | For 50ml |
| 786-223 | **FOCUS™ Extraction Buffer-IV** (25g) with **DILUENT-III** (30ml) | For 50ml |
| 786-219 | **FOCUS™ Extraction Buffer-V** (25g) with **DILUENT-II** (30ml) | For 50ml |
| 786-233 | **FOCUS™ Extraction Buffer-VI** (25g) with **DILUENT-III** (30ml) | For 50ml |

## RELATED PRODUCTS

Download our Sample Preparation Handbook.




http://info.gbiosciences.com/complete-protein-sample-preparation-handbook/

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