



Application Manual

FastProtein™ Blue Matrix

*Rapid Purification from Bacteria using the
FastPrep® and FastPrep-24™ instruments.*

- **One Call**
- **One Source**
- **A World of
Sample Prep
Solutions**

Cat. No. and Size:
116550400, 50 preps
116550500, 100 preps

Storage:
Ambient temperature (15 - 30° C)

Protocol Revision #116550400 - 140CT

MSDS available online

mpbio.com/sampleprep



TABLE OF CONTENTS

1. Protocol..... 3

2. Product Use Limitation & Warranty..... 5



1. Protocol

1. Dilute 3 mL of an overnight bacterial culture into 50 mL of fresh media in a sterile 250 mL flask.

Incubate for ~ 4 – 6 hours at 37°C with shaking at ~150 - 200 rpm to reach an $OD_{600} = 0.9 - 1.0$

NOTE: 1.0 OD_{600} for Escherichia coli is ~ 1 X 10⁹ cells per milliliter

Collect the desired volume of bacterial culture and pellet the cells by centrifugation. Discard the supernatant and resuspend the cell pellet in the appropriate amount of ice-cold 1X PBS or desired user provided lysis buffer. See table below for appropriate buffer volumes to add to the bacterial pellet. Add protease inhibitors if desired.

2. Add the appropriate volume of resuspended cells to pre-chilled FastProtein™ Blue Matrix Tube.

NOTE: See table on next page for the volumes of cell suspension to add per FastProtein™ Blue Matrix Tube.

NOTE: Do Not add more the 1.2 mL total volume to the FastProtein™ Blue Matrix Tube.

3. Process the tubes in the FastPrep® or FastPrep-24™ Instrument for 20 seconds at a setting of 6.0.
4. After homogenization, centrifuge the tube at 10,000 x g for 1 minute at 4°C and transfer supernatant to new tube.
5. Analyze 20 µL of the supernatant on a polyacrylamide gel.
6. Supernatant from step 3 can be used for further purification.

Volumes of 1 X PBS or Lysis Buffer and cell suspension per FastProtein™ Blue Matrix tube for various volumes of bacterial culture.

Culture Volume	Volume of 1X PBS or Lysis Buffer	Volume of cell suspension per FastProtein™ Blue Matrix Tube
2-5 mL	300 µL	300 µL
10 mL	600 µL	600 µL
25 mL	2 mL	1 mL
50 mL	5 mL	1 mL

7. Product Use Limitation & Warranty

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Notes:

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Application Manual

FastProtein™ Blue Matrix

Protocol Revision # 116550400 - 14OCT

Cat. No. 116550400, 116550500

Worldwide Ordering and Technical Support

USA

Worldwide Headquarters

Tel: 800.854.0530
Fax: 800.334.6999

Europe

Phone: 00800.7777.9999
Fax: 00800.6666.8888

Australia

Tel: +61 2.9838.7422
Tel: 1800.249.998
Fax: +61 2.9838.7390
Fax: 1800.818.671

Belgium

Tel: +32 2.466.00.00
Fax: +32 2.466.26.42

Canada

Tel: 800.854.0530
Fax: 800.334.6999

China

Tel: +86 21.6281.5005
Fax: +86 21.6281.5663

France

Tel: +33 3.88.67.54.25
Fax: +33 3.88.67.19.45

Germany

Tel: 0800.426.67.337
Fax: 0800.629.67.337

India

Tel: +91 22.22631257/58
Fax: +91 22.22631259

Japan

Tel: +81 03.3808.2102
Tel: 0120.78.8020
Fax: +81 03.3808.2401

Latin America

Tel: +1 440.337.1200
Fax: +1 440.337.1180

The Netherlands

Tel: 0800.0227.416
Fax: 0800.0227.489

New Zealand

Tel: +64 9.912.2460
Fax: +64 9.838.4209

Poland

Tel: +48 22.659.58.95
Fax: +48 22.658.45.05

Russia

Tel: +7 495.661.0008
Fax: +33 3.88.67.19.45

Serbia

Tel: +381 11.242.1972
Fax: +381 11.242.1949

Singapore

Tel: +65 6775.0008
Fax: +65 6774.6146

Switzerland

Tel: +41 61.271.0007
Fax: +41 61.271.0084

United Kingdom

Tel: 0800.282.474
Fax: 0800.614.735

mpbio.com/sampleprep
support@mpbio.com

MP Biomedicals • 29525 Fountain Parkway • Solon, OH 44139 USA • tel: 800.854.0530 • fax: 800.334.6999

