

ProtoArray[®] Blocking Buffer Kit

Cat. no. PA055

Store at -20°C

Description

The ProtoArray[®] Blocking Buffer Kit consists of reagents sufficient for preparing Blocking Buffer and Wash Buffer to process 10 ProtoArray[®] Human Protein Microarrays for ProtoArray[®] protein-protein interaction (PPI), immune response biomarker profiling (IRBP), and antibody specificity profiling (ASP) applications. Each kit contains one bottle each of Blocking Buffer, and 10X Synthetic Block, and one tube of dithiothreitol (DTT). For detailed instructions, microarray specifications, ProtoArray[®] technology overview, troubleshooting, and license information, download the **ProtoArray[®] Applications Guide** from www.invitrogen.com.

Specifications

Contents:	Blocking Buffer	DTT	10X Synthetic Block
Volume:	55 mL	400 μL	75 mL
Composition:	50 mM HEPES pH 7.5; 25% Glycerol; 0.08% Triton X-100; 200 mM NaCl; 20 mM Reduced Glutathione	1 M DTT	Proprietary
Storage:	-20°C	-20°C	Room Temperature
Stability:	Stable for at least 6 months		

Intended Use

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Part no. 100007019

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Usage

The reagents in the ProtoArray[®] Blocking Buffer Kit are supplied for use in PPI, IRBP, and ASP applications. Use 5 mL of Blocking Buffer (containing 1X Synthetic Block and 1 mM DTT) per microarray, and 60 mL of Washing Buffer per microarray. Adjust the volumes in the instructions below for the number of arrays being processed.

Do not use the buffers made from the Blocking Buffer Kit for kinase substrate interaction (KSI), ubiquitin ligase profiling (ULP), SUMO ligase profiling, or small molecule interaction (SMI) assays.

Additional Reagents (not supplied)

Deionized water
10X PBS
10% Tween 20

Preparing Buffers

Always prepare buffers **fresh** for best results. Mix all stocks in a glass bottle.
Cool buffers to 4°C before application to array.

Preparing Blocking Buffer (with 1X Synthetic Block and 1 mM DTT)

Blocking Buffer consists of 50 mM HEPES pH 7.5; 25% Glycerol; 0.08% Triton X-100; 200 mM NaCl; 20 mM Reduced Glutathione, 1X Synthetic Block and 1 mM DTT.

1. Prepare 50 mL Blocking Buffer **fresh** as follows:

10X Synthetic Block	5 mL
Blocking Buffer	45 mL

2. Mix reagents, chill to 4°C and add 0.1 mL of 1 M DTT prior to use.

Note: Use buffer immediately. If desired, remaining buffer can be stored at 4°C for <24 hours.

Preparing Washing Buffer

Washing buffer consists of 1X PBS; 0.1% Tween 20; and 1X Synthetic Block.

1. Prepare 600 mL Washing Buffer **fresh** as follows:

10X PBS	60 mL
10% Tween 20	6 mL
10X Synthetic Block	60 mL
Deionized water	to 600 mL

2. Mix reagents and cool to 4°C.

Note: Use buffer immediately. If desired, remaining buffer can be stored at 4°C for <24 hours.

Product Qualification

The Certificate of Analysis provides detailed quality control information for each product. Certificates of Analysis are available on our website at www.invitrogen.com/support.

Related Products

Product	Amount	Catalog no.
ProtoArray [®] Control Protein Microarray v5.0	1 array	PA10057
ProtoArray [®] Human Protein Microarray v5.0	1 array	PAH052501
ProtoArray [®] Human Protein Microarray v5.0	20 arrays	PAH052520
10X Synthetic Block	75 mL	PA017
Alexa Fluor [®] 647 Anti-V5 Antibody for ProtoArray [®]	80 µL	451098
Streptavidin-Alexa Fluor [®] 647 Conjugate (2 mg/mL)	0.5 mL	S-32357
ProtoArray [®] Human Protein Microarray v5.0 PPI Kit (for biotinylated proteins)	1 kit	PAH0525011
ProtoArray [®] Human Protein Microarray v5.0 PPI Kit (for V5-tagged proteins)	1 kit	PAH0525013
ProtoArray [®] Human Protein Microarray v5.0 KSI Kit	1 kit	PAH0525065

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