

## 10X Synthetic Block

Cat. no. PA017

Size: 75 ml

Store at room temperature

### Description

Invitrogen's 10X Synthetic Block is a concentrated polymer-based protein-free blocking agent. This easy to use blocking agent is optimized for use with Invitrogen's ProtoArray<sup>®</sup> Human Protein Microarrays, and results in optimal assay performance and signal-to-background ratio. Sufficient reagent is provided for processing 10 arrays.

### Specifications

Concentration: 10X

Composition: Proprietary

Storage: Store at room temperature. For long term storage, store at 4°C.

Stability: Stable for at least 6 months

### 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](http://www.invitrogen.com/support).

### Usage

The 10X Synthetic Block is used to prepare Blocking Buffer and Washing Buffer for ProtoArray<sup>®</sup> Human Protein Microarrays.

Part no. 100005741

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**Usage, continued****Preparing Blocking Buffer**

Blocking buffer consists of 50 mM HEPES, pH 7.5; 200 mM NaCl; 0.08% Triton<sup>®</sup> X-100; 25% Glycerol; 20 mM Reduced glutathione; 1X Synthetic Block; and 1 mM DTT. Use 5 ml buffer per microarray.

1. Prepare 100 ml Blocking Buffer **fresh** as follows:

1 M HEPES, pH 7.5	5 ml
5 M NaCl	4 ml
10% Triton <sup>®</sup> X-100	0.8 ml
50% Glycerol	50 ml
Reduced glutathione	610 mg
10X Synthetic Block	10 ml
Deionized water	to 100 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.

## Usage, continued

### Preparing Washing Buffer

Washing buffer consists of 1X PBS; 0.1% Tween 20; and 1X Synthetic Block. Use 60 ml buffer per microarray.

1. Prepare 1,000 ml Washing Buffer **fresh** as follows:

10X PBS	100 ml
10% Tween 20	10 ml
10X Synthetic Block	100 ml
Deionized water	to 1,000 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.

**Related Products**

<b>Product</b>	<b>Amount</b>	<b>Catalog no.</b>
ProtoArray® Human Protein Microarray v4.1 for IRBP	1 array	PAH0524102
	20 arrays	PAH05241020

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