

NEW

# microarray **BUFFERS**

**Optimised buffers for  
DNA microarray experiments**



This range of validated and optimised buffers includes **spotting**, **blocking**, **hybridization** and **washing** solutions, for both aminosilane and epoxysilane chemistries.

These reagents, manufactured under standardised conditions, benefit from the GeneWave technical know-how.

Specially developed to be used with **amplislide™** and **brioslide™**, they bring improved results for microarray experiments by promoting finest spot morphology and highest signal-to-noise ratio.

## **Benefits**

- ➔ Perfect choice for GeneWave slides
- ➔ Convenient for both automatic and manual protocols
- ➔ High quality spot morphology
- ➔ High spot-to-spot reproducibility
- ➔ Reduced experiment time using premixed solutions
- ➔ Improved performance of microarray experiments

## **Spotting Buffers**

These reagents are optimised for spotting of cDNA molecules, PCR products and oligonucleotides (long and short). Chemical components contained in these ready-to-use buffers enhance the immobilisation of samples and the morphology of spots.

Three different spotting buffers are available:

- ➔ **Spot A** : for aminosilane slides;
- ➔ **Spot E** : phosphate-based for epoxysilane slides;
- ➔ **Spot LE** : Low Evaporation for epoxysilane slides.

## **Blocking Buffers**

This **blocking** buffer reacts rapidly with residual binding site of the slide surface in order to prevent non-specific and undesirable coupling of the fluorescent target to the printed and unprinted areas of the microarray. This leads more specific distribution of sample and reduced background in the signals.



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## Hybridization Buffers

These ready-to-use formamide-based buffers are compatible with both aminosilane and epoxysilane chemistries. They have been designed to increase hybridization efficiency and kinetics.

Two different hybridization buffers are available:

- ➔ **Hyb Buffer** : for all hybridizations;
- ➔ **Hyb Plus Buffer**: optimised for highly concentrated hybridization samples.

## Washing Buffers

Developed to enhance pre and post hybridization processing, these washing buffers help eliminating residual chemicals and biologicals molecules used during the whole microarray manufacturing and that are non specifically adsorbed onto the surface.

## Quality Control

- ➔ Quality Control for concentration, absorbance and pH values
- ➔ High purification by microfiltration
- ➔ Produced under standardised conditions

## Storage Conditions

- ➔ Store at room temperature
- ➔ 6 months shelf-life after opening, or under sterile conditions

## Product Specifications

	Spot A	Spot E	Spot LE	Block	Hyb	Hyb Plus	Wash 1H	Wash 1	Wash 2	Wash 3
Amino Compatible	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Epoxy Compatible	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spotting Step	<b>X</b>	<b>X</b>	<b>X</b>							
Blocking Step				<b>X</b>						
Hybridization Step					<b>X</b>	<b>X*</b>				
Washing Step							<b>X**</b>	<b>X</b>	<b>X</b>	<b>X</b>

\* Recommended for highly concentrated samples  
 \*\* High Stringency Solution

## Ordering information

Product number	Designation	Product number	Designation
<b>Spotting Buffers</b>		<b>Blocking Buffers</b>	
2SBA-005	Spot A buffer, 2X, 5mL	2BS-100	Block buffer, 100mL
2SBA-025	Spot A buffer, 2X, 25mL	2BS-400	Block buffer, 400mL
2SBE-005	Spot E buffer, 2X, 5mL	<b>Washing Buffers</b>	
2SBE-025	Spot E buffer, 2X, 25mL	2WS1H-100	Wash 1H buffer, 10X, 100mL
2SBL-005	Spot LE buffer, 2X, 5mL	2WS1H-400	Wash 1H buffer, 10X, 400mL
2SBL-025	Spot LE buffer, 2X, 25mL	2WS1-100	Wash 1 buffer, 10X, 100mL
<b>Hybridization Buffers</b>		2WS1-400	Wash 1 buffer, 10X, 400mL
2HB-005	Hyb buffer, 2X, 5mL	2WS2-100	Wash 2 buffer, 10X, 100mL
2HB-025	Hyb buffer, 2X, 25mL	2WS2-400	Wash 2 buffer, 10X, 400mL
2HBD-005	Hyb Plus buffer, 2X, 5mL	2WS3-100	Wash 3 buffer, 10X, 100mL
2HBD-025	Hyb Plus buffer, 2X, 25mL	2WS3-400	Wash 3 buffer, 10X, 400mL



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