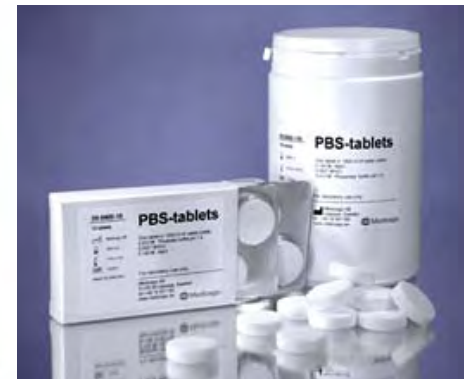


Medicago SmartBuffers



Form# AM05
03-2011



Why choose Medicago?

- ◆ Pioneers in the development and manufacturing of SmartBuffers with 16 years of solid experience
- ◆ World-class quality
 - ◆ Chemicals and reagents of the highest quality
 - ◆ ISO 9001:2008 and 13485:2003 certified
 - ◆ cGMP production
- ◆ Wide range
 - ◆ Standard buffers
 - ◆ Customized buffers



Form# AM05
03-2011



7768 Service Center Drive • West Chester OH 45069

Phone: 513.770.1991

Toll Free: 866.783.3797

Fax: 513.573.9241

Email: info@aniara.com

www.aniara.com



SmartBuffers

Medicago's SmartBuffers is a range of Biological buffers, supplied in a pre-mixed dry format as tablets or in pouches.

SmartBuffers are

- ◆ formulated from analytical grade chemicals
- ◆ exactly pre-weighed with pre-set pH
- ◆ stable at room temperature for at least 3 years
- ◆ manufactured in cGMP environment



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Why use SmartBuffers?



- ◆ Smart Format
 - ◆ Pre-mixed dry format as tablets or in pouches – Quick and easy-to-use
- ◆ Reproducibility and Consistency
 - ◆ Guaranteed reproducible and consistent results – each time.
- ◆ Environmentally Friendly Alternative
 - ◆ Switching to Medicago SmartBuffers reduces greenhouse gas emissions from transportation by up to 99 %
 - why ship water around the world?

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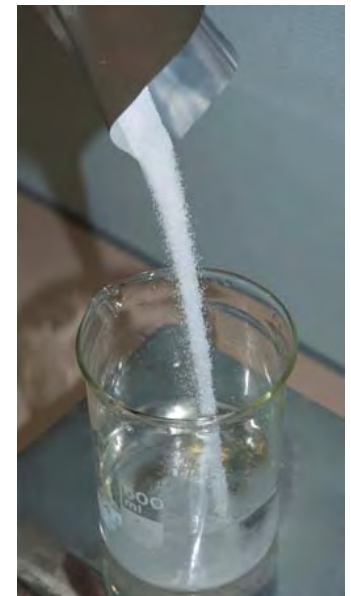
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Why use SmartBuffers?

- ◆ Save Time and Money
 - ◆ Using Medicago SmartBuffers™ saves up to 30 minutes of laboratory work – each time!
- ◆ Ultimate Convenience
 - ◆ Dissolve and you are ready to go in minutes!



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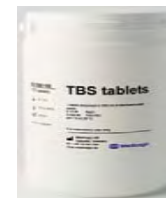
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Why transport water?



1 unit of liquid buffer:
100 litre = 100 kg



SmartBuffer tablets:
100 litre = 1 kg

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Advantages of SmartBuffers



- ◆ Quick and easy-to-use
- ◆ Less time spent in the laboratory
- ◆ Increased precision
- ◆ Guaranteed lot-to-lot reproducibility
- ◆ No need of calibrating pH
- ◆ No weighing and calculation errors
- ◆ Save space in stock rooms
- ◆ Long shelf life in comparison to liquid buffers

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SmartBuffer™ Applications



- ◆ Cell and tissue culturing
- ◆ Western/Southern/Northern Blots
- ◆ Immunoassays/ELISA procedures
- ◆ Immunohistochemistry
- ◆ Molecular Biology
- ◆ Nucleic acid electrophoresis
- ◆ Protein electrophoresis
- ◆ Microbiology
- ◆ Coating procedures
- ◆ Biochemistry/Clinical chemistry

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SmartBuffers Applications

Selection Table for SmartBuffers

	PBS	PBS-T	TBS	TBS-T	BBS	NaPI	TAE	TBE	TG	TG+SDS	TE	Carb-Bicarb	SSC	Tris-HCl	NaAc	BSC	EDTA	SSPE	
Applications																			
Nucleic acid electrophoresis							*	*										*	
Protein electrophoresis									*	*									
Western blot		*	*	*	*				*										
Southern blot													*						
Northern blot							*						*						
Coating procedures		*			*							*							
Immunoassays/ ELISA	*	*	*	*	*							*							
Immunohistochemistry	*		*								*								
Microarrays																			*
Tissue and cell culture	*		*											*			*	*	
Microbiology	*																		
Molecular biology			*			*					*		*	*	*			*	
Biochemistry/Clinical chemistry	*				*	*							*	*		*	*	*	
Characteristics																			
Isotonic	*	*	*	*	*								(1x)						
Autoclavable	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
Pouches	*		*			*	*	*	*	*	*		*	*	*	*	*	*	
Tablets	*	*	*	*	*							*	*					*	
Solution	*																		
Pack size range	16	5	4	2	1	7	2	3	2	2	1	5	3	3	2	2	2	2	1

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SmartBuffers Product Range



- ◆ Phosphate Buffered Saline (PBS)
- ◆ Phosphate Buffered Saline with Tween 20™(PBS-T)
- ◆ Tris Buffered Saline (TBS)
- ◆ Tris Buffered Saline with Tween 20™ (TBS-T)
- ◆ Tris Acetate EDTA (TAE) buffer / Tris Borate EDTA (TBE) buffer
- ◆ Glycine-HCl buffer
- ◆ Carbonate bicarbonate buffer
- ◆ Buffered Sodium Citrate
- ◆ Tris-Glycine / Tris-Glycine-SDS
- ◆ Tris-EDTA (TE) buffer
- ◆ Tris-HCl buffer
- ◆ Sodium Phosphate buffer
- ◆ SSC buffer
- ◆ Sodium Acetate buffer
- ◆ EDTA buffer
- ◆ Borate buffered saline

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