



# ROBUST MICROFLUIDICS FOR A BROAD RANGE OF APPLICATIONS



#### AT CREOPTIX. WE STRIVE FOR FLEXIBILITY AND HIGH PERFORMANCE

The Creoptix WAVEchips offer fast and synchronized sample injections and stability for long off-rates, paired with the broadest sample compatibility and the most user-friendly handling on the market. With no-clog microfluidics and revolutionary sensor technology in one single disposable cartridge, we offer a broad range of sensor chips to best fit your application needs.

#### **FLEXIBILITY**

Explore any biomolecular interaction with a broad range of sensor chip surfaces for an all-in-one solution.

#### **COMPATIBILITY**

Perform your experiments in biofluids (including serum and plasma), crude samples and uncommon solvents thanks to our no-clog microfluidics design for reduced maintenance costs.

#### **EFFECTIVENESS**

Exchange your WAVEchips to have fresh, clean microfluidics within minutes, without the need for special technical support.

#### **PERFORMANCE**

Enjoy the fastest and most synchronized sample transitions thanks to our parallel flow channels for high-quality kinetics.

# WAVEchips QUICKGUIDE

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MANGELLA	0	Ма	trix	lr	nmobilizat	ion Modalit
WAVEchip	Special Characteristics	PC	CMD	COV	BIOTIN	HIS
рсн (С	Thick hydrogel	•		<b>⊘</b>		
PCP (U)U)A( (	Quasi-planar	<b>⊘</b>		<b>⊘</b>		
PCL ()	Thick hydrogel with reduced charges	<b>✓</b>		<b>⊘</b> 1		
PCH-STA	Streptavidin-coated	<b>⊘</b>			<b>⊘</b>	
PCP-STA	Quasi-planar, streptavidin-coated	<b>⊘</b>			<b>⊘</b>	
PCH-NTA	NTA-functionalized	<b>⊘</b>				<b>⊘</b>
PCP-NTA	Quasi-planar, NTA-functionalized	<b>⊘</b>				<b>⊘</b>
PCP-PAG	Protein A/G-functionalized	•				
PCP-LIP	Quasi-planar, lipid anchors	•				
PCZ VYVVV	Zwitterionic polymer	•		<b>⊘</b>		
<b>DXH</b> Upon request	Thick hydrogel		<b>⊘</b>	<b>⊘</b>		
<b>DXH-STA</b> Upon request	Streptavidin-coated		<b>⊘</b>		<b>⊘</b>	

	4183400	4PCP			
ту		acity	Suggested Applications	Great for*	
OTHER	HIGH	LOW	Large ligand-to-analyte molecular weight ratio. General purpose.	Q & 100 Y	
		0	Large ligands and/or analytes such as proteo-/liposomes, viruses, VLPs.		
		•	Complex matrices such as serum, culture supernatant.	٨	
	٥		Biotinylated ligands. General purpose.	Q & 100 Y	
		•	Large biotinylated ligands and/or analytes such as proteo-/liposomes, viruses, VLPs.	Q & 100 Y	
	•		His-tagged ligands. General purpose.		
		•	Large His-tagged-ligands and/or analytes such as proteo-/liposomes, viruses, VLPs.		
IgG		•	Antibody (IgG) ligands.		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Lipid		•	Hydrophobic ligands such as liposomes, membrane vesicles or fragments. Compatible with large ligands and/or analytes.		creoptixe
		•	Acidic protein and/or negatively charged ligands. Recommended for positively charged analytes. High non-fouling properties.		<b>4PCP</b> 41806011
	•		General purpose.	Q & 100 Y	4 4
	٥		Biotinylated ligands. General purpose.	Q & 100 Y	
	oplications e your orde		all molecules/FBDS Serology Membrane proteins Biolog orders@creoptix.com	ics	

For specific questions on our applications, contact us through support@creoptix.com

**4PCP** 1841A006

# EXPLORE NO LIMITS DISCOVER NEW APPLICATIONS

#### **SMALL OR LARGE**

From fragment screening to protein, antibody and membrane protein characterization, we have a sensor to suit your needs. Explore a wide range of immobilization modalities and conditions.

#### **FAST OR SLOW**

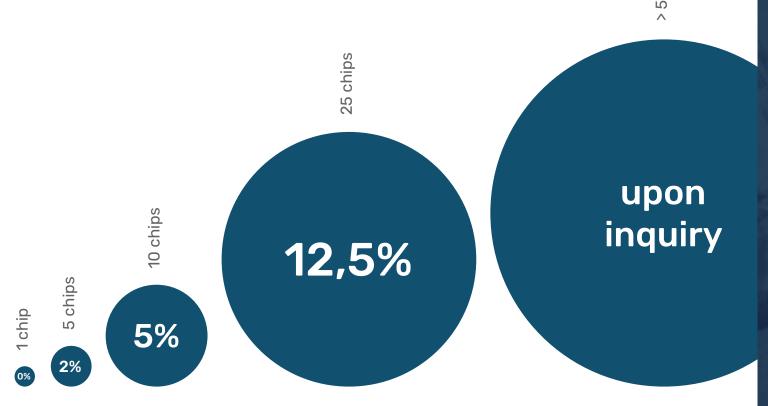
From tight to weak binders, fast to slow off-rates, our microfluidics and surfaces combine long-term stability with highly synchronized and extremely fast transitions from buffer-to-sample and sample-to-buffer.

#### SIMPLE OR COMPLEX

For extraordinary assay flexibility, our sensors are fully compatible with the toughest samples, including 100% serum or plasma, cell lysates, crude membrane protein preparations, large drug targets, virus-like particles (VLPs), liposomes, and more.

#### **WAVEchips PRICE SCHEME**

Continue exploring new applications with our attractive, transparent and straightforward price scheme. The more WAVEchips you buy, the higher the discount. Applies to all WAVEchips.



Choose the most suitable sensor chip for your application
All WAVEchips are suitable for both the WAVE and WAVEdelta systems

#### POLYCARBOXYLATE-LAYERED SURFACES

WAVECHIP 4PCH SERIES: sensors functionalized with a high capacity polycarboxylate layer

ORDER NO.	Description
4PCH	Sensor chip suited for immobilization through amine coupling
4PCH-STA	Sensor chip with pre-immobilized streptavidin, ideal for capturing biotinylated molecules
4PCH-NTA	Sensor chip with pre-immobilized NTA, ideal for capturing His-tagged molecules

#### WAVECHIP 4PCP SERIES: sensors functionalized with a thin polycarboxylate layer

ORDER NO.	Description
4PCP	Sensor chip suited for immobilization through amine coupling
4PCP-STA	Sensor chip with pre-immobilized streptavidin, ideal for capturing biotinylated molecules
4PCP-NTA	Sensor chip with pre-immobilized NTA, ideal for capturing His-tagged molecules
4PCP-LIP*	Sensor chip with pre-immobilized lipophilic groups for capturing lipid-based particles or hydrophobic ligands
4PCP-PAG	Sensor chip with pre-immobilized proteinA/G fusion for capturing the broadest range of IgG and FC-tagged proteins

#### WAVECHIP ALTERNATIVE SERIES: sensors functionalized with special polycarboxylate layers

ORDER NO.	Description
4PCZ	Low fouling sensor functionalized with a zwitterionic polymer bearing carboxylic acids and tertiary amines in similar densities. This sensor chip is suited for immobilization through amine coupling. Ideal for coupling proteins with low isoelectric points or polyanionic ligands
4PCL	Low capacity sensor functionalized with a thick polycarboxylate layer with a lower amount of negative charges (approx. 25%). This sensor chip is suited for immobilization through amine coupling. Requires sulfo-NHS for activation

#### CARBOXYMETHYL-DEXTRAN-LAYERED SURFACES

WAVECHIP 4DHX SERIES: sensors functionalized with a carboxymethyl-dextran layer

ORDER NO.	Description			
4DXH*	High capacity, sensor chip suited for immobilization through amine coupling			
4DXH-STA*	High capacity, sensor chip with pre-immobilized streptavidin, ideal for capturing biotinylated molecules			

# ROBUST MICROFLUIDICS IN A SINGLE DISPOSABLE CARTRIDGE

To stay up-to-date with our latest developments, visit www.creoptix.com

Place your order through orders@creoptix.com



LABEL-FREE DATA
LIKE YOU'VE NEVER SEEN BEFORE



# WAVEchips QUICKGUIDE

WAVEchip		Chariel Characteristics		Matrix		
		Special Characteristics	PC	CMD		
РСН	((\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Thick hydrogel	<b>⊘</b>			
РСР	(())))((()))	Quasi-planar	<b>⊘</b>			
PCL		Thick hydrogel with reduced charges	<b>⊘</b>			
PCH-STA		Streptavidin-coated	<b>⊘</b>			
PCP-STA		Quasi-planar, streptavidin-coated	<b>⊘</b>			
PCH-NTA		NTA-functionalized	<b>⊘</b>			
PCP-NTA	**************************************	Quasi-planar, NTA-functionalized	<b>⊘</b>			
PCP-PAG	শ্ব কুনিইক কুশ্বিকিক্টোক কুশ	Protein A/G-functionalized	<b>⊘</b>			
PCP-LIP	LING WHAN WASH	Quasi-planar, lipid anchors	<b>⊘</b>			
PCZ	<i>ሉጒሉጒሉኊ፠</i> ሊ	Zwitterionic polymer	<b>⊘</b>			
<b>DXH</b> Upon request	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Thick hydrogel		<b>⊘</b>		
<b>DXH-STA</b> Upon request		Streptavidin-coated		<b>⊘</b>		

Ir	mmobilizat	ion Modali	ty	Сара	acity		
COV	BIOTIN	HIS	OTHER	HIGH	LOW	Suggested Applications	Great for*
•				0		Large ligand-to-analyte molecular weight ratio. General purpose.	Q & 1/2
<b>⊘</b>					•	Large ligands and/or analytes such as proteo-/liposomes, viruses, VLPs.	
<b>✓</b> 1					•	Complex matrices such as serum, culture supernatant.	
	<b>⊘</b>			0		Biotinylated ligands. General purpose.	Q & 100 Y
	<b>⊘</b>				0	Large biotinylated ligands and/or analytes such as proteo-/liposomes, viruses, VLPs.	Q & 100 Y
		<b>⊘</b>		0		His-tagged ligands. General purpose.	
		<b>⊘</b>			•	Large His-tagged-ligands and/or analytes such as proteo-/liposomes, viruses, VLPs.	
			IgG		•	Antibody (IgG) ligands.	
			Lipid		•	Hydrophobic ligands such as liposomes, membrane vesicles or fragments. Compatible with large ligands and/or analytes.	
					0	Acidic protein and/or negatively charged ligands. Recommended for positively charged analytes. High non-fouling properties.	
<b>✓</b>				0		General purpose.	Q & 11
	<b>⊘</b>			0		Biotinylated ligands. General purpose.	Q & 100 W

#### WAVEchips suitable for all WAVE systems

WAVEchip	Quantity	Order No.	Price (USD)
WAVEchip 4PCH	Pack of 1	4PCH-01	295
	Pack of 3	4PCH-03	825
	Pack of 10	4PCH-10	2′595
WAVEchip 4PCP	Pack of 1	4PCP-01	295
	Pack of 3	4PCP-03	825
	Pack of 10	4PCP-10	2'595
WAVEchip 4PCL	Pack of 1	4PCL-01	295
	Pack of 3	4PCL-03	825
	Pack of 10	4PCL-10	2'595
WAVEchip 4PCH-STA	Pack of 1	4PCH-STA-01	395
	Pack of 3	4PCH-STA-03	1'125
	Pack of 10	4PCH-STA-10	3'525
WAVEchip 4PCP-STA	Pack of 1	4PCP-STA-01	395
	Pack of 3	4PCP-STA-03	1'125
	Pack of 10	4PCP-STA-10	3'525
WAVEchip 4PCH-NTA	Pack of 1	4PCH-NTA-01	395
	Pack of 3	4PCH-NTA-03	1'125
	Pack of 10	4PCH-NTA-10	3'525
WAVEchip 4PCP-NTA	Pack of 1	4PCP-NTA-01	395
	Pack of 3	4PCP-NTA-03	1'125
	Pack of 10	4PCP-NTA-10	3'525
WAVEchip 4PCP-PAG	Pack of 1	4PCP-PAG-01	395
	Pack of 3	4PCP-PAG-03	1'125
	Pack of 10	4PCP-PAG-10	3'525
WAVEchip 4PCP-LIP	Pack of 1	4PCP-LIP-01	395
	Pack of 3	4PCP-LIP-03	1'125
	Pack of 10	4PCP-LIP-10	3'525
WAVEchip 4PCZ	Pack of 1	4PCZ-01	395
	Pack of 3	4PCZ-03	1'125
	Pack of 10	4PCZ-10	3'525
WAVEchip 4DXH	Pack of 1	4DXH-01	295
	Pack of 3	4DXH-03	825
	Pack of 10	4DXH-10	2'595
WAVEchip 4DXH-STA	Pack of 1	4DXH-STA-01	395
	Pack of 3	4DXH-STA-03	1′125
	Pack of 10	4DXH-STA-10	3′525

#### WAVEchips suitable for all WAVE systems

WAVEchip	Quantity	Order No.	Price (EUR)
WAVEchip 4PCH	Pack of 1	4PCH-01	295
	Pack of 3	4PCH-03	825
	Pack of 10	4PCH-10	2′595
WAVEchip 4PCP	Pack of 1	4PCP-01	295
	Pack of 3	4PCP-03	825
	Pack of 10	4PCP-10	2′595
WAVEchip 4PCL	Pack of 1	4PCL-01	295
	Pack of 3	4PCL-03	825
	Pack of 10	4PCL-10	2′595
WAVEchip 4PCH-STA	Pack of 1	4PCH-STA-01	395
	Pack of 3	4PCH-STA-03	1'125
	Pack of 10	4PCH-STA-10	3'525
WAVEchip 4PCP-STA	Pack of 1	4PCP-STA-01	395
	Pack of 3	4PCP-STA-03	1'125
	Pack of 10	4PCP-STA-10	3'525
WAVEchip 4PCH-NTA	Pack of 1	4PCH-NTA-01	395
	Pack of 3	4PCH-NTA-03	1'125
	Pack of 10	4PCH-NTA-10	3'525
WAVEchip 4PCP-NTA	Pack of 1	4PCP-NTA-01	395
	Pack of 3	4PCP-NTA-03	1'125
	Pack of 10	4PCP-NTA-10	3'525
WAVEchip 4PCP-PAG	Pack of 1	4PCP-PAG-01	395
	Pack of 3	4PCP-PAG-03	1'125
	Pack of 10	4PCP-PAG-10	3'525
WAVEchip 4PCP-LIP	Pack of 1	4PCP-LIP-01	395
	Pack of 3	4PCP-LIP-03	1'125
	Pack of 10	4PCP-LIP-10	3'525
WAVEchip 4PCZ	Pack of 1	4PCZ-01	395
	Pack of 3	4PCZ-03	1'125
	Pack of 10	4PCZ-10	3'525
WAVEchip 4DXH	Pack of 1	4DXH-01	295
	Pack of 3	4DXH-03	825
	Pack of 10	4DXH-10	2'595
WAVEchip 4DXH-STA	Pack of 1	4DXH-STA-01	395
	Pack of 3	4DXH-STA-03	1'125
	Pack of 10	4DXH-STA-10	3'525

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WAVEchip	Quantity	Order No.
WAVEchip 4PCH	Pack of 1 Pack of 3 Pack of 10	4PCH-01 4PCH-03 4PCH-10
WAVEchip 4PCP	Pack of 1 Pack of 3 Pack of 10	4PCP-01 4PCP-03 4PCP-10
WAVEchip 4PCL	Pack of 1 Pack of 3 Pack of 10	4PCL-01 4PCL-03 4PCL-10
WAVEchip 4PCH-STA	Pack of 1 Pack of 3 Pack of 10	4PCH-STA-01 4PCH-STA-03 4PCH-STA-10
WAVEchip 4PCP-STA	Pack of 1 Pack of 3 Pack of 10	4PCP-STA-01 4PCP-STA-03 4PCP-STA-10
WAVEchip 4PCH-NTA	Pack of 1 Pack of 3 Pack of 10	4PCH-NTA-01 4PCH-NTA-03 4PCH-NTA-10
WAVEchip 4PCP-NTA	Pack of 1 Pack of 3 Pack of 10	4PCP-NTA-01 4PCP-NTA-03 4PCP-NTA-10
WAVEchip 4PCP-PAG	Pack of 1 Pack of 3 Pack of 10	4PCP-PAG-01 4PCP-PAG-03 4PCP-PAG-10
WAVEchip 4PCP-LIP	Pack of 1 Pack of 3 Pack of 10	4PCP-LIP-01 4PCP-LIP-03 4PCP-LIP-10
WAVEchip 4PCZ	Pack of 1 Pack of 3 Pack of 10	4PCZ-01 4PCZ-03 4PCZ-10
WAVEchip 4DXH	Pack of 1 Pack of 3 Pack of 10	4DXH-01 4DXH-03 4DXH-10
WAVEchip 4DXH-STA	Pack of 1 Pack of 3 Pack of 10	4DXH-STA-01 4DXH-STA-03 4DXH-STA-10