Carterra® LSA®: Sensor Chip Descriptions

Selection of the appropriate sensor chip surface is essential for robust data quality when designing a high throughput SPR assay. Carterra offers a broad range of chip surfaces to support the diverse applications available on the LSA. Described here are the standard chip offerings for the LSA. Custom surfaces may be available upon request. Always consult with a Carterra Applications Scientist when selecting sensor chips.

Linear polycarboxylate

Name	Description	Application
НС30М	Polycarboxylate hydrogel, medium charge density, 30nm coating thickness	Moderate ligand capacity and excellent diffusion characteristics
HC200M	Polycarboxylate hydrogel, medium charge density, 200nm coating thickness	Higher ligand capacity for increased levels of immobilization

Carboxymethylated dextran

Name	Description	Application
CMDP	2D planar carboxymethyldextran surface, <5nm coating thickness	Lower ligand capacity and excellent diffusion characteristics
CMD50M	Carboxymethyldextran hydrogel, medium charge density, 50nm coating thickness	Moderate ligand capacity and improved diffusion characteristics
CMD200M	Carboxymethyldextran hydrogel, medium charge density, 200nm coating thickness	Higher ligand capacity for increased levels of immobilization
CMD500M	Carboxymethyldextran hydrogel, medium charge density, 500nm coating thickness	Higher ligand capacity for maximum levels of immobilization

NiNTA

Name	Description	Application
NiHC200M	Poly - NTA derivatized linear polycarboxylate hydrogel, medium charge density,	High capacity for His-tagged
	200nm coating thickness	ligand applications

Streptavidin

Name	Description	Application
SAP	Streptavidin immobilized on 2D planar carboxymethyl dextran surface, <5nm coating thickness	Very low capacity for arraying of biotinylated ligands
SAHC30M	Streptavidin, immobilized in polycarboxylate hydrogel, medium charge density, 30nm coating thickness	Lower capacity for biotinylated ligand kinetic lawns
SAD200M	Streptavidin, immobilized in a carboxymethyldextran hydrogel, medium charge density, 200nm coating thickness	High capacity for biotinylated ligand applications



PAGHC200M

200nm coating thickness

Protein A				
Name	Description	Application		
PAHC200M	Protein A derivatized linear polycarboxylate hydrogel, medium charge density, 200nm coating thickness	High capacity for quantitation of human IgG		
Protein A/G				
Name	Description	Application		
PAGHC30M	Protein A/G derivatized linear polycarboxylate hydrogel, medium charge density, 30nm coating thickness	High capacity for quantitation of multi-species IgG		
PACHC200M	Protein A derivatized linear polycarboxylate hydrogel, medium charge density,	High capacity for quantitation		

• NOTE: While CMD is a well described chemistry for use in biosensors, the linear polycarboxylate chemistry of HC chips provides an alternate surface chemistry to that of CMD in instances of non-specific binding or when differential diffusion characteristics are warranted. When stored at -20 °C , the CMD, HC, and NiHC surfaces are good for two years after purchase, while protein derivatized coatings such as SAD, Protein A, and Protein A/G should be used within one year.

Carterra technology is protected by the following patents and other patents pending: 8,210,119, 8,211,382, 8,383,059, 8,999,726, 9,682,372, 9,682,396, 10,825,548

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