<table>
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<th>Biosensor</th>
<th>Part no.</th>
<th>Surface chemistry</th>
<th>Capacity</th>
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| COOH1    | PS00AFB | Planar carboxylated oligoethylene oxide        | Low      | Amine coupling        | Protein–protein, other large molecule kinetic assays when lectin binding may occur, or dextran alternative is desired. | • Immobilization of targets without derivatization or tags  
• Produces a highly stable covalent bond  
• Can be used to immobilize affinity ligands to create additional capture chemistries (e.g. Protein A, antibodies, etc.)  
• Effective over a wide pH range |
| CDL      | 19-0127 | Thin, low density carboxymethyl dextran layer  | Medium   | Amine coupling        | Measuring accurate kinetics of protein–protein or other intermediate (>1 kDa) to large (>25 kDa) molecule interactions. | • Immobilization of targets without derivatization or tags  
• Biocompatible with a range of molecules  
• Produces a highly stable covalent bond  
• Can be used to immobilize affinity ligands to create additional capture chemistries (e.g. Protein A, antibodies, etc.)  
• Effective over a wide pH range |
| CDH      | 19-0128 | Carboxymethyl dextran three-dimensional hydrogel surface with carboxylic acids | High     | Amine coupling        | Small molecule–protein interactions, fragment screening, or other target interactions with low binding activity. Assays where high capacity is needed. | • Immobilization of targets without derivatization or tags  
• High-capacity dextran surface, ideal for immobilizing a large amount of target for small molecule and fragment analysis  
• Biocompatible with a wide range of molecules  
• Produces a highly stable covalent bond  
• Effective over a wide pH range |
| PCH      | 19-0129 | Non-dextran polycarboxylate hydrogel surface   | High+    | Amine coupling        | Small molecule (<1 kDa)–protein interactions, fragment screening, or other target interactions with low binding activity. Assays where high capacity is needed and/or dextran alternative is desired. | • Immobilization of targets without derivatization or tags  
• Highest capacity surface, ideal for immobilizing targets for small molecule and fragment analysis  
• Provides an alternative to dextran surface  
• Produces a highly stable covalent bond  
• Effective over a wide pH range |
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| HisCap    | PS05AFB | Non-dextran polysaccharide three-dimensional surface with carboxylic acids pre-immobilized nitriotriacetic acid (NTA), regenerable with imidazole, EDTA | High     | Capture via His tag   | Small molecule or peptide kinetics with His-tagged protein ligands. Large molecule kinetic assays with His-tagged proteins. | - Capture capacity high enough for low molecular weight analytes such as fragments  
- Has a stable baseline, important for accurate kinetic analysis  
- Provides a convenient means of directed immobilization of His-tagged proteins  
- Can be regenerated using a variety of conditions, such as imidazole, SDS, or EDTA  
- Suitable alternative for proteins that are not amenable to amine coupling |
| SADH      | 19-0130 | Streptavidin immobilized in three-dimensional carboxymethyl dextran hydrogel | Medium-High | Capture via biotin tag | Intermediate (>1 kDa) to large (>25 kDa) molecule kinetics with biotinylated ligands. | - Highly efficient capture in a wide pH range  
- Requires low quantities of ligand (nanomolar concentrations)  
- Single step immobilization  
- Surface has lower electrostatic charge compared to amine coupling sensors |