



# Getting the best out of your Biacore™ system

Biacore consumables



# A flying start

No matter what you want to get out of your interaction analysis, GE Healthcare has developed a range of tools designed specifically to make Biacore assays as easy and reliable as possible.

The complete toolbox is backed up by stringent production methods and quality control.

This brochure describes some of the benefits of Biacore consumables for rapidly getting great results. We've labeled tools with colors to indicate the application areas where the tool offers clear advantages.

Give yourself a flying start to successful Biacore analysis, and land on reliable results.



## A sensor surface for every need

*Get the best response for your particular interaction study*

## Kits to save you time and effort

*Up and running in record time with our kits and reagents*

## Buffers and solutions for convenience

*Get a quick start and feel confident in your daily work*

## Products marked with these symbols are great for:



Biotherapeutic applications



Small molecule applications



General research applications



# A sensor surface for every need

Our extensive range of Biacore sensor surfaces enables you to study interactions involving virtually any protein and also many other biomolecules and structures, from small organic molecules up to viruses.

## Native ligands



### For full versatility: Sensor Chip CM5

This sensor chip provides a high capacity to immobilize a wide range of ligands. You can employ a variety of coupling chemistries to exploit common functional groups such as amino, thiol, hydroxyl, carboxyl, and aldehyde groups.



### For small molecules and fragments: Sensor Chip CM7

Use this sensor chip when you are interested in screening and characterizing small molecules and fragments. It is a high capacity alternative, useful when the target protein has a low concentration or is very sensitive to immobilization conditions.



### To reduce background binding: Sensor Chip CM4

This sensor chip has a dextran matrix similar to sensor Chip CM5 but with a lower charge making it suitable for exploring alternative assay conditions.



### Explore alternative assay conditions: Sensor Chip CM3

Shorter dextran matrix and similar charge density to Sensor Chip CM5 for exploring alternative assay conditions.



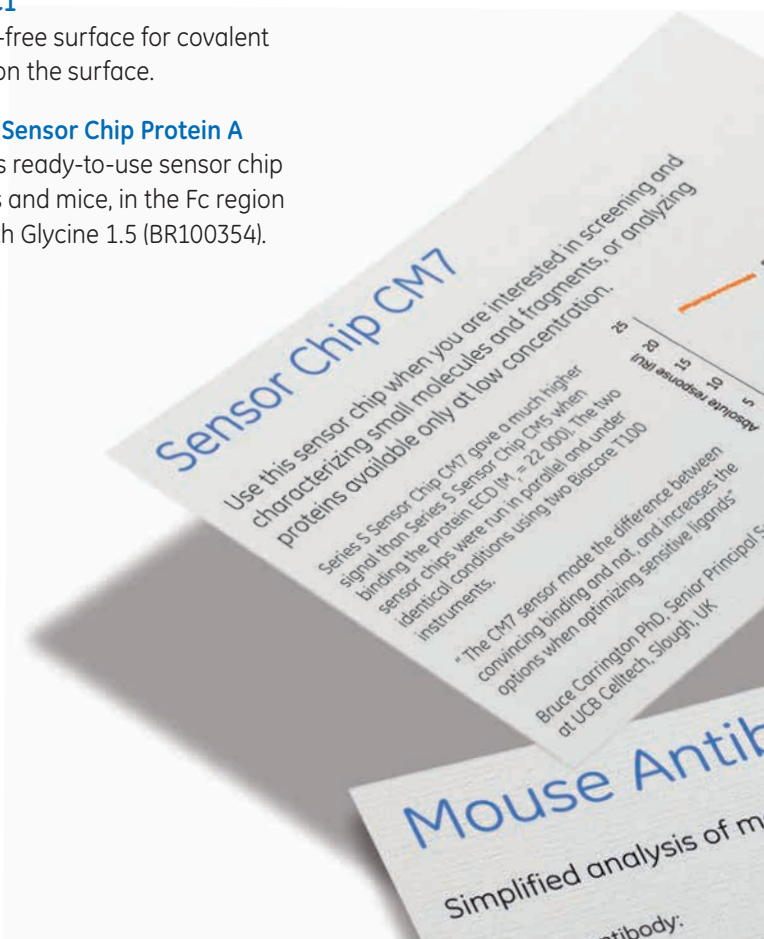
### If there is a need to avoid dextran: Sensor Chip C1

This sensor chip has a carboxymethylated, matrix-free surface for covalent immobilization if there is a need to avoid dextran on the surface.



### For antibody quantitation and characterization: Sensor Chip Protein A

The recombinant Protein A pre-immobilized on this ready-to-use sensor chip binds antibodies, predominantly IgG from humans and mice, in the Fc region only. Simple and efficient surface regeneration with Glycine 1.5 (BR100354).



## Modified ligands, lipids or membranes



### For biotinylated ligands: Sensor Chip SA

This sensor chip carries covalently attached streptavidin to give you high affinity capture of biotinylated ligands such as proteins, peptides, nucleic acids, or carbohydrates with an orientated immobilization.



### For histidine-tagged molecules: Sensor Chip NTA

This sensor chip offers convenient capture of histidine-tagged molecules through metal-chelation, allowing simple and efficient surface regeneration by EDTA.



### For proteins in a lipid monolayer: Sensor Chip HPA

This sensor chip captures lipids as a monolayer on its hydrophobic surface. It is designed to help you easily set up a model for studying membrane-associated proteins.



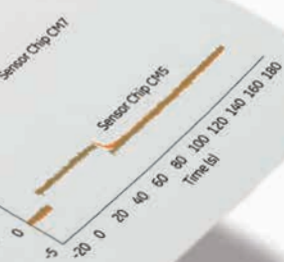
### For proteins in a lipid bilayer: Sensor Chip L1

This lipophilic sensor chip is designed for stable capture of lipid vesicles and liposomes whilst retaining the bilayer structure of the membrane, providing a suitable system for studying transmembrane proteins.



### For unique surface chemistries: Sensor Chip Au and SIA Kit Au

The plain gold surface of Sensor Chip Au enables you to customize the surface for your own immobilization system. SIA Kit Au provides unmounted gold surfaces with a separate chip carrier to prepare surfaces using harsh conditions.





# Kits save you time and effort

Our capture kits significantly reduce the time and effort you need to spend on developing your assay. In addition, our coupling kits include selected reagents for covalent attachment of your ligand.

## Biacore capture kits cut assay development and add consistency

The capture approach enables orientated immobilization of ligand from a complex solution. Biacore capture kits save you time and effort by eliminating most of the assay development work. They also provide consistent capture levels which are important, for example, when studying panels of antibodies.

Our range gives you a number of options for capturing the most common antibodies and tags. All kits contain validated, high-quality reagents and optimized protocols.



### Rapid selection of human Fab fragments: Human Fab Capture Kit

This capture kit provides reagents and protocols for screening and characterization of human Fab antibody fragments, using a Fab binder with broad specificity and stable, high capture efficiency.



### To capture human antibodies: Human Antibody Capture Kit

This capture kit provides you with reagents and protocols for convenient capture of human or humanized IgG antibodies, providing rapid, consistent analyses with minimal assay development.



### For mouse IgG antibodies: Mouse Antibody Capture Kit

This capture kit provides you with reagents and protocols for convenient capture of mouse antibodies, providing rapid, consistent analyses with minimal assay development.



### Capture of histidine-tagged molecules: His Capture Kit

This kit enables capture by an anti-histidine antibody, as a complement to capture by metal-chelation on Sensor Chip NTA.



### Directed capture of GST fusion proteins: GST Capture Kit

This capture kit provides anti-GST antibody and reagents for the site-directed capture of GST fusion proteins.



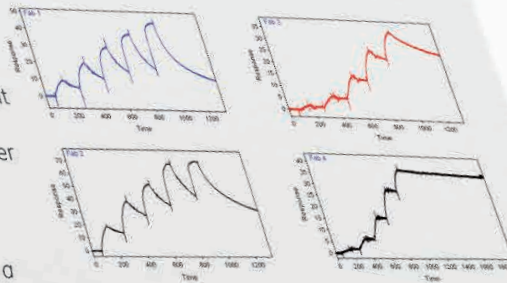
### Extended experimental range: Biotin CAPture Kit

Biotin CAPture Kit provides a method for reversible capture of biotinylated molecules and standardized regeneration. This enables work with unstable ligands and allows analysis of different biotinylated ligands with the same sensor chip.

# Biotin CAPture Kit

With this kit you can reversibly capture biotinylated molecules and standardize regeneration, simplifying your work with unstable ligands and different biotinylated ligands.

The study involved binding of antibody Fab fragments to TNF-alpha, a non-covalent trimer that falls apart during regeneration of the sensor surface. By using Biotin CAPture Kit each Fab fragment could be tested using biotinylated TNF-alpha freshly captured after regeneration, thereby providing more consistent results.



"We found the kit easy to use and it was a great method for regenerating streptavidin surfaces."

Dr David Myszka, University of Utah

## Coupling kits for a multitude of molecules

When your ligand is covalently attached to the sensor surface, regeneration does not remove the ligand. This can help to reduce the consumption of precious ligands. Also, covalent immobilization normally results in very stable attachment of the ligand to the surface.



### Coupling via primary amine groups: Amine Coupling Kit

Amine coupling chemistry is the most widely-applicable approach for attaching biomolecules covalently to the surface.



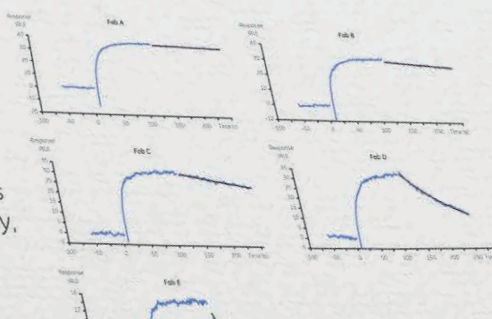
### Defined orientation through thiol/disulfide exchange: Thiol Coupling Kit

You can refine the orientation of your protein by using thiol groups instead of amine groups, and you may even achieve more efficient coupling. Disulfide groups can also be introduced, which is useful for acidic proteins. This kit contains all the reagents you need for coupling.

# Human Fab Capture Kit

Human Fab Capture Kit provides you with detailed kinetics-based analysis of binding properties early in your screening process.

Stable binders were quickly selected and ranked by capturing Fab fragments on the immobilized Human Fab Binder, injecting the antigen, and measuring the interaction using Biacore A100.



"The test demonstrated many advantageous properties of the kit - good capture efficiency, great stability, excellent regeneration, low cross-reactivity to other proteins."

Jan Jaehrling, MorphoSys AG, Munich

# Buffers and solutions for convenience

Buffers and solutions developed and verified to work in Biacore systems get you up and running fast

## Immobilization buffers

With convenience in mind right from the start, GE Healthcare provides a range of immobilization buffers for the most common ligand types and immobilization conditions.

## Sample preparation

Components in complex sample matrices such as plasma, serum, or cell lysates may bind non-specifically to the dextran surface of sensor chips, complicating the analysis of specific binding interactions. You can minimize these effects by using NSB Reducer, which is simply added to the sample before injection.

## Running buffers

The recommended running buffer for your assay depends on the type of molecules used in the interaction, which assay will be run, and the type of sensor chip used. Our range of running buffers provides you with both convenience and quality, supplied in ready-to-use or concentrated form.

## Regeneration solutions

Regeneration is the step where bound analyte is removed from the sensor chip after analysis, without affecting the activity of the immobilized ligand. In many systems, conditions that remove analyte tend to reduce ligand activity, and finding the optimal conditions is an essential part of assay development.

GE Healthcare has developed a series of regeneration solutions that meets the majority of needs. We have also simplified your search for suitable regeneration solutions by providing a Regeneration Scouting Kit, which includes small volumes of a range of regeneration solutions together with instructions giving clear guidance in the scouting process.



# Expand your expertise today

Visit our [Biacore training portal](#) and get the most out of your Biacore system with our comprehensive applications support and training tools

## Self-training tools

GE Healthcare offers a wealth of self-training tools on the use of Biacore systems, designed to help you make the most of your investment.

**Getting started:** Guide new users through basic hands-on training.

**E-learning courses:** Learn online at your convenience, from the basics to advanced calculations for measuring kinetics and affinity.

**Educational lecture package:** Support materials for your own training course on your premises (*For bona fide teaching purposes only*).

## Classroom courses

Take practical and theoretical courses with personal support and comprehensive course literature. Extensive access to teaching resources for the hands-on sessions and software exercises allows individual pacing with optimum support.

Visit [www.gelifesciences.com/bctraining](http://www.gelifesciences.com/bctraining) and download all the Biacore training material you need.

## Application support tools

Explore, download, and save our Tech Tips, methods, interactive training tutorials, calculator tools, and software to help you increase the effectiveness of your Biacore system.

Choose from our range of LabGuides and handbooks for all the theory, workflows, protocols, recipes, and troubleshooting guides you need to help make your experiments a success.

Visit [www.gelifesciences.com/bcappsupport](http://www.gelifesciences.com/bcappsupport) and get instant access to all our application support tools whenever you need it.



# Ordering Information

## Sensor chips

### Series S sensor chips for Biacore 4000, Biacore A100, Biacore S200, Biacore T200, Biacore T100 and Biacore S51








Product name	Description	Quantity	Code number
<b>Series S Sensor Chip CM5</b> 	The most versatile chip available — the first choice for immobilization via -NH <sub>2</sub> , -SH, -CHO, -OH or -COOH groups.	Pack of 3 Pack of 1	BR100530 29104988
<b>Series S Sensor Chip CM7</b> 	A high capacity alternative to Sensor Chip CM5 for fragment and low molecular weight molecule samples.	Pack of 1	28953828
<b>Series S Sensor Chip CM4</b> 	An alternative to Sensor Chip CM5 with similar dextran matrix but lower charge. Suitable for exploring alternative assay conditions (e.g., addressing background binding).	Pack of 3 Pack of 1	BR100534 29104989
<b>Series S Sensor Chip CM3</b> 	An alternative to Sensor Chip CM5 with shorter dextran matrix and similar charge density to explore alternative assay conditions.	Pack of 3 Pack of 1	BR100536 29104990
<b>Series S Sensor Chip C1</b> 	Use when there is a need to avoid dextran on the surface.	Pack of 3 Pack of 1	BR100535 29104944
<b>Series S Sensor Chip Protein A</b> 	Use for oriented capture or binding of antibodies through Fc region only. Use with regeneration solution Glycine 1.5 (BR100354).	Pack of 3 Pack of 1	29127556 29127555
<b>Series S Sensor Chip NTA</b> 	For convenient capture of histidine-tagged molecules via metal chelation. (Format compatible with Biacore S51 but no system support). Use with NTA Reagent Kit (28995043) containing nickel solution and regeneration solution.	Pack of 3 Pack of 1	BR100532 28994951
<b>Series S Sensor Chip SA</b> 	For stable and convenient immobilization of biotinylated molecules.	Pack of 3 Pack of 1	BR100531 29104992
<b>Series S Sensor Chip L1</b> 	For stable high-capacity capture of vesicles and liposomes.	Pack of 1	29104993
<b>Series S Sensor Chip HPA</b> 	For deposition of lipid monolayers. (Format compatible with Biacore S51 but no system support).	Pack of 1	29104994
<b>SIA Kit Au</b> 	Contains unmounted gold surfaces and separate chip supports for easy assembly after surface coating. This allows the use of a wide variety of coating techniques, including those using harsh conditions that the chip carrier would not withstand. Not recommended for use with Biacore 4000, Biacore A100, or Biacore S51.	Kit includes: 10 sensor surfaces Au 16 adhesive strips  For classic and Series S formats: 10 sensor chip supports 1 protective sheath 1 assembly unit	BR100405

## Sensor chips for other Biacore systems

Product name	Description	Quantity	Code number
<b>Sensor Chip CM5</b> 	The most versatile chip available — the first choice for immobilization via -NH <sub>2</sub> , -SH, -CHO, -OH, or -COOH groups.	Pack of 3 Pack of 1	BR100012 BR100399
<b>Sensor Chip CM7</b> 	For studies of small molecule interactions and if it is difficult to reach the necessary immobilization level.	Pack of 1	28957332
<b>Sensor Chip CM4</b> 	Use when sample contaminants have a high positive charge.	Pack of 3	BR100539
<b>Sensor Chip CM3</b> 	Use when the interaction partner in solution is very large.	Pack of 3	BR100541
<b>Sensor Chip C1</b> 	Use when there is a need to avoid dextran on the surface.	Pack of 3	BR100540
<b>Sensor Chip Protein A</b> 	Use for oriented capture or binding of antibodies through Fc region only. Use with regeneration solution Glycine 1.5 (BR100354).	Pack of 3 Pack of 1	29127558 29127557
<b>Sensor Chip NTA</b> 	For convenient capture of histidine-tagged molecules via metal chelation. Use with NTA Reagent Kit (28995043) containing nickel solution and regeneration solution.	Pack of 3 Pack of 1	BR100407 BR100034
<b>Sensor Chip SA</b> 	Use for immobilization of biotinylated peptides, proteins, nucleic acids, or carbohydrates.	Pack of 3 Pack of 1	BR100398 BR100032
<b>Sensor Chip L1</b> 	Use to incorporate a molecule into a lipid bilayer.	Pack of 3 Pack of 1	BR100543 BR100558
<b>Sensor Chip HPA</b> 	Use when working with model membrane systems.	Pack of 3 Pack of 1	BR100030 BR100406
<b>Sensor Chip Au</b> 	Untreated gold surface for use with custom coating techniques.	Pack of 3	BR100542
<b>SIA Kit Au</b> 	Contains unmounted gold surfaces and separate chip supports for easy assembly after surface coating. This allows the use of a wide variety of coating techniques, including those using harsh conditions that the chip carrier would not withstand.	Kit includes: 10 sensor surfaces Au 16 adhesive strips For classic and Series S formats: 10 sensor chip supports 1 protective sheath 1 assembly unit	BR100405









# Reagents, buffers and solutions

## Immobilization reagents

Product name	Description	Quantity	Code number
<b>Amine Coupling Kit</b> 	Reagents for covalent immobilization of molecules carrying a primary amine group. Sufficient for 30–50 immobilizations.	750 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride (EDC), 115 mg N-hydroxysuccinimide (NHS), 10.5 ml 1.0 M ethanolamine-HCl pH 8.5	BR100050
<b>Amine Coupling Kit, type 2</b> For Biacore 4000, Biacore A100 and Biacore S51 	Reagents for covalent immobilization of molecules carrying a primary amine group. Sufficient for 60–80 immobilizations.	750 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride (EDC), 115 mg N-hydroxysuccinimide (NHS), 2 × 10.5 ml 1.0 M ethanolamine-HCl pH 8.5	BR100633
<b>Thiol Coupling Kit</b> 	Reagents and coupling solutions for performing molecule and/or surface thiol couplings. Contains reagents for 50 surface thiol immobilizations, 18 thiol immobilizations or 22 PDEA ligand modifications.	90 mg cystamine dihydrochloride, 61 mg L-cysteine, 154 mg 1,4-dithioerythritol (DTE), 10.5 ml 1.0 M ethanolamine-HCl pH 8.5, 750 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride (EDC), 115 mg N-hydroxysuccinimide (NHS), 100 ml 0.1 M 2-(4-morpholino)ethanesulfonic acid (MES) pH 5.0, 100 mg 2-(2-pyridinyldithio)ethaneamine hydrochloride (PDEA), 25 ml 0.1 M sodium acetate 1.0 M, sodium chloride pH 4.0, 25 ml 0.15 M sodium borate pH 8.5	BR100557
<b>PDEA Thiol Coupling Reagent</b> 	Reagent for immobilization of thiol-containing molecules. Reactive disulfide groups are introduced onto carboxyl groups of either the sensor chip matrix or the ligand*.	100 mg 2-(2-pyridinyldithio)ethaneamine hydrochloride (PDEA)	BR100058
<b>Acetate 4.0</b> 	Immobilization buffer, 10 mM sodium acetate pH 4.0	1 × 50 ml	BR100349
<b>Acetate 4.5</b> 	Immobilization buffer, 10 mM sodium acetate pH 4.5	1 × 50 ml	BR100350
<b>Acetate 5.0</b> 	Immobilization buffer, 10 mM sodium acetate pH 5.0	1 × 50 ml	BR100351
<b>Acetate 5.5</b> 	Immobilization buffer, 10 mM sodium acetate pH 5.5	1 × 50 ml	BR100352
<b>Borate 8.5</b> 	Immobilization buffer, 10 mM disodium tetraborate pH 8.5, 1 M NaCl	1 × 50 ml	BR100353

\* The use of these products in Biacore systems requires Amine Coupling Kit with Sensor Chip CM5, CM4, CM3 or C1.

## Capture reagents







Product name	Description	Quantity	Code number
<b>His Capture Kit</b> 	Reagents for capture of histidine-tagged molecules in biomolecular interaction studies. Sufficient for 10 immobilizations and up to 1000 regenerations.	Anti-histidine antibody, 1 mg/ml in 0.15 M NaCl, 50 µl Immobilization buffer, 1.2 ml Regeneration solution, 100 ml	28995056
<b>GST Capture Kit</b> 	Reagents for site-directed affinity capture of GST fusion proteins. Facilitates the study of interactions between the fusion protein and its binding partners. Sufficient for 20 immobilizations and up to 600 regenerations*.	Goat anti-GST antibody, 0.6 mg/ml in 0.15 M NaCl, 100 µl Positive control: Recombinant GST ( <i>Schistosoma japonicum</i> ), 0.2 mg/ml in 100 µl HBS-EP Immobilization buffer, 5 ml Regeneration solution, 70 ml	BR100223
<b>Biotin CAPture Kit</b> 	Reagents and sensor chip for reversible capture of biotinylated molecules in biomolecular interaction studies. For Biacore X100, Biacore C, Biacore 3000, Biacore 2000, Biacore 1000, Biacore Upgrade, Biacore X and Biacore J. Sufficient for 80-140 regenerations depending on system.	One Sensor Chip CAP Biotin CAPture Reagent, 50 µg/ml in HBS-EP buffer, 3.4 ml Regeneration Stock 1, 16 ml Regeneration Stock 2, 6 ml	28920233
<b>Biotin CAPture Kit, Series S</b> 	Reagents and sensor chip for reversible capture of biotinylated molecules in biomolecular interaction studies. Sufficient for 100 regenerations in Biacore S200, Biacore T200 and Biacore T100, and 20 regenerations in Biacore 4000 and Biacore A100.	One Series S Sensor Chip CAP Biotin CAPture Reagent, 50 µg/ml in HBS-EP buffer, 3.4 ml Regeneration Stock 1, 16 ml Regeneration Stock 2, 6 ml	28920234
<b>NTA Reagent Kit</b> 	Reagents for Sensor Chip NTA, which is used to capture histidine-tagged molecules in biomolecular interaction analysis.	50 ml 0.5 mM NiCl <sub>2</sub> , 100 ml 350 mM EDTA	28995043
<b>Mouse Antibody Capture Kit</b> 	Reagents for capture of mouse IgG antibodies in biomolecular interaction analyses. Sufficient for 10 immobilizations and 1000 regenerations*.	Anti-Mouse IgG antibodies 1 mg/ml in 0.15 M NaCl, 50 µl Immobilization buffer, 1 ml Regeneration solution, 95 ml	BR100838
<b>Human Antibody Capture Kit</b> 	Reagents for capture of human or humanized IgG antibodies in biomolecular interaction analyses. Sufficient for 10 immobilizations and 1000 regenerations*.	Anti-Human IgG (Fc) antibody 0.5 mg/ml in 0.15 M NaCl, 50 µl Immobilization buffer, 1 ml Regeneration solution, 95 ml	BR100839
<b>Human Fab Capture Kit</b> 	Reagents for capture of human Fab antibody fragments in biomolecular interaction analyses. Sufficient for 10 immobilizations and 1000 regenerations*.	Human Fab Binder, 0.5 mg/ml in 0.15 M NaCl, 50 µl Immobilization buffer, 2 × 1.2 ml Regeneration solution, 2 × 90 ml	28958325

\* The use of these products in Biacore systems requires Amine Coupling Kit with Sensor Chip CM5, CM4, CM3 or C1.



## Reagents, buffers and solutions

### Regeneration solutions



Product name	Description	Quantity	Code number
<b>Regeneration Scouting Kit</b> 	Contains 10 solutions, mostly ready to use, for developing regeneration conditions. Instructions for optimal regeneration scouting are included.	11 ml ethylene glycol (p.a.) 11 ml 10 mM glycine-HCl pH 1.5 11 ml 10 mM glycine-HCl pH 2.0 11 ml 10 mM glycine-HCl pH 2.5 11 ml 10 mM glycine-HCl pH 3.0 11 ml 4.0 M magnesium chloride 11 ml 0.2 M sodium hydroxide 11 ml 0.5% sodium dodecyl sulphate (SDS) 11 ml 5.0 M NaCl 20 ml surfactant P20	BR100556
<b>Glycine 1.5</b> 	10 mM glycine-HCl pH 1.5	1 × 100 ml	BR100354
<b>Glycine 2.0</b> 	10 mM glycine-HCl pH 2.0	1 × 100 ml	BR100355
<b>Glycine 2.5</b> 	10 mM glycine-HCl pH 2.5	1 × 100 ml	BR100356
<b>Glycine 3.0</b> 	10 mM glycine-HCl pH 3.0	1 × 100 ml	BR100357
<b>NaOH 50</b> 	50 mM NaOH	1 × 100 ml	BR100358

## Running buffers





Product name	Description	Quantity	Code number
<b>HBS-EP</b> For Biacore C, Biacore 3000, Biacore 2000, Biacore 1000, Biacore Upgrade, Biacore X, and Biacore J. 	General purpose buffer, degassed and ready to use 0.01 M HEPES pH 7.4, 0.15 M NaCl, 3 mM EDTA, 0.005% v/v Surfactant P20	6 × 200 ml	BR100188
<b>HBS-P</b> For Biacore C, Biacore 3000, Biacore 2000, Biacore 1000, Biacore Upgrade, Biacore X, and Biacore J. 	Degassed and ready to use 0.01 M HEPES pH 7.4, 0.15 M NaCl, 0.005% v/v Surfactant P20	6 × 200 ml	BR100368
<b>HBS-N</b> For Biacore C, Biacore 3000, Biacore 2000, Biacore 1000, Biacore Upgrade, Biacore X, and Biacore J. 	Degassed and ready to use 0.01 M HEPES pH 7.4, 0.15 M NaCl	6 × 200 ml	BR100369
<b>HBS-EP+ 10X</b> For Biacore 4000, Biacore A100, Biacore S200, Biacore T200, Biacore T100, and Biacore X100 	General purpose buffer. Concentrated stock solution containing 0.1 M HEPES, 1.5 M NaCl, 30 mM EDTA and 0.5% v/v Surfactant P20. Will yield pH 7.4 when diluted 10x.	1 × 1000 ml 4 × 50 ml	BR100669 BR100826
<b>HBS-P+ 10X</b> For Biacore 4000, Biacore A100, Biacore S200, Biacore T200, Biacore T100, and Biacore X100 	Concentrated stock solution containing 0.1 M HEPES, 1.5 M NaCl and 0.5% v/v Surfactant P20. Will yield pH 7.4 when diluted 10x.	1 × 1000 ml 4 × 50 ml	BR100671 BR100827
<b>HBS-N 10X</b> For Biacore 4000, Biacore A100, Biacore S200, Biacore T200, Biacore T100, and Biacore X100 	Concentrated stock solution containing 0.1 M HEPES and 1.5 M NaCl. Will yield pH 7.4 when diluted 10x.	1 × 1000 ml 4 × 50 ml	BR100670 BR100828
<b>PBS-P+ 10X</b> Supports the recommendations for small molecule assays in Biacore systems. 	Concentrated stock solution containing 0.2 M phosphate buffer with 27 mM KCl, 1.37 M NaCl and 0.5% Surfactant P20 (Tween™ 20). Will yield pH 7.4 when diluted 10x and supplemented with 2% DMSO.	1 × 1000 ml	28995084
<b>PBS 10X</b> For all Biacore systems. 	Concentrated stock solution containing 0.1 M phosphate buffer with 27 mM KCl and 1.37 M NaCl. Will yield pH 7.4 when diluted 10x and supplemented with 5% DMSO.	1 × 1000 ml	BR100672

## Reagents, buffers and solutions

### Additives







Product name	Description	Quantity	Code number
<b>NSB Reducer</b> 	Reduces non-specific binding to carboxymethyl dextran sensor surfaces. Sufficient for approximately 650 samples.	Carboxymethyl dextran sodium salt (10 mg/ml) in 0.15 M NaCl containing 0.02% sodium azide (NaN <sub>3</sub> ), 10 ml	BR100691
<b>Surfactant P20</b> 	Polyoxyethylenesorbitan, a non-ionic surfactant recommended for inclusion in buffers. Tested for peroxides and carbonyls. Supplied as a sterile filtered 10% solution in water.	1 × 20 ml	BR100054

### Maintenance kits








Product name	Description	Quantity	Code number
<b>BIAmaintenance Kit</b> For Biacore X100, Biacore 3000, Biacore 2000, Biacore 1000, Biacore Upgrade, Biacore X, and Biacore J 	Convenient kit for proper instrument maintenance. Sufficient for 6 months normal usage. HBS-EP 10X buffer (BR100826) for Biacore X100, or HBS-EP buffer (BR100188) for the other systems should be ordered separately.	BIAtest solution (65 ml) BIAnormalizing solution (30 ml) BIAdesorb solution 1 (90 ml) BIAdesorb solution 2 (90 ml) BIAdisinfected solution (10 ml) Sensor Chip Maintenance	BR100666
<b>Biacore Maintenance Kit</b> For Biacore C 	Convenient kit for proper instrument maintenance. Sufficient for 6 months normal usage. Additional HBS-EP buffer BR100188 should be ordered separately.	BIAtest solution (65 ml) BIAnormalizing solution (30 ml) BIAdesorb solution 1 (90 ml) BIAdesorb solution 2 (90 ml) BIAdisinfected solution (10 ml) HBS-EP buffer (200 ml) Sensor Chip Maintenance Sensor Chip System Check Vials and caps	BR100667
<b>Biacore Maintenance Kit, type 2</b> For Biacore 4000, Biacore A100, Biacore S200, Biacore T200, Biacore T100, and Biacore S51 	Convenient kit for proper instrument maintenance. Sufficient for 3 to 4 months (Biacore S200, Biacore T200, Biacore T100, Biacore S51) or 1 to 2 months (Biacore 4000, Biacore A100) normal usage. Additional HBS-N buffer (BR100670) should be ordered separately.	BIAtest solution with HBS-N (65 ml) BIAnormalizing solution (90 ml) BIAdesorb solution 1 (2 × 95 ml) BIAdesorb solution 2 (2 × 95 ml) BIAdisinfected solution (3 × 10 ml) HBS-N buffer 10× (50 ml) Sensor Chip Maintenance	BR100651
<b>Desorb Kit</b> 	Separate BIAdesorb solutions, for additional cleaning of the flow system in Biacore systems.	BIAdesorb solution 1 (500 ml) BIAdesorb solution 2 (500 ml)	BR100823

## Accessories

### Vials

Product name	Description	Quantity	Code number
Glass Vials, Ø 9 mm 	1.8 ml borosilicate vials	600 vials	BR100207
Glass Vials, Ø 16 mm 	4.0 ml borosilicate screw top glass vials	500 vials	BR100209
Plastic Vials, Ø 7 mm 	0.8 ml rounded polypropylene microvials	1000 vials	BR100212
Plastic Vials, Ø 11 mm 	1.5 ml polypropylene vials with wide opening that allows a pipette to reach the bottom	500 vials	BR100287
Plastic Vials, Ø 15 mm 	4.0 ml polypropylene vials	1000 vials	BR100654
Plastic Vials and Caps, Ø 11 mm 	2.0 ml polypropylene screw top vials, screw caps with o-ring seal <b>The screw caps are only to be used for storage, not to be used in the instrument.</b>	500 vials, 500 caps	BR100214

### Caps

Product name	Description	Quantity	Code number
Caps and Septa, 16 mm 	Polypropylene screw caps and high quality silicone/PTFE septa. To be resealed after use.	500 caps and 500 septa	BR100211
Caps, 7 mm 	Thin polyethylene snap caps	1000 caps	BR100213
Rubber Caps 	Penetrable cap made of Kraton™ G (SEBS). Air tight after penetration.	400 caps	BR100286
Rubber Caps, type 2 	Penetrable cap made of Kraton G (SEBS). <b>Ventilated</b>	400 caps	BR100411
Rubber Caps, type 3 	Penetrable cap made of Kraton G (SEBS). <b>Ventilated</b>	600 caps	BR100502
Rubber Caps, type 4 	Penetrable cap made of Kraton G (SEBS). Air tight after penetration.	600 caps	BR100555
Rubber Caps, type 5 	Penetrable cap made of Kraton G (SEBS). <b>Ventilated</b>	400 caps	BR100655

# Accessories and compatibilities

## Sample and reagent racks

Product name	Code number
<b>Reagent Rack, type 1</b> for Biacore S200, Biacore T200, Biacore T100, and Biacore S51	BR100481
<b>Reagent Rack, type 2</b> for Biacore S200, Biacore T200, Biacore T100, and Biacore S51	BR100482
<b>Sample and Reagent Rack, type 1</b> for Biacore S200, Biacore T200 and Biacore T100	BR100653
<b>Thermo Rack A</b> for Biacore 3000 / 2000 / 1000 / BIAcore	BR100136
<b>Thermo Rack B</b> for Biacore 3000 / 2000 / 1000 / BIAcore	BR100137
<b>Thermo Rack C</b> for Biacore 3000 / 2000 / 1000 / BIAcore	BR100138
<b>Thermo Rack F</b> for Biacore C	BR100336
<b>Reagent Rack A</b> for Biacore 3000	BR100380
<b>Reagent Rack B</b> for Biacore C	BR100412
<b>Reagent Rack C</b> for Biacore C	BR100413
<b>Biacore X100 Sample and Reagent Rack</b> for Biacore X100	BR100799

## Additional information

No. of vials in rack	Vial type	Cap type
20 × 11 mm	BR100287	BR100411
9 × 16 mm 24 × 7 mm	BR100209 BR100212	BR100411 BR100502
45 × 7 mm 24 × 11 mm	BR100212 BR100287	BR100502 BR100411
9 × 16 mm	BR100654 or BR100209	BR100655 BR100411
5 × 16 mm	BR100209	BR100211 or BR100286
12 × 9 mm	BR100207	BR100555
40 × 7 mm	BR100212	BR100213 or BR100555
60 × 9 mm	BR100207	BR100555
24 × 11 mm	BR100214 or BR100287	BR100286
6 × 16 mm 18 × 11 mm	BR100209 BR100214 or BR100287	BR100411 BR100411
4 × 16 mm	BR100209	BR100211 or BR100286
4 × 11 mm	BR100214 or BR100287	BR100286
6 × 16 mm 1 × 11 mm	BR100209 BR100214 or BR100287	BR100411 BR100411
2 × 7 mm	BR100212	BR100502
20 × 7 mm	BR100212	BR100502
15 × 11 mm 1 × 15 mm	BR100287 BR100654	BR100411 No cap

**Biacore 4000 and Biacore A100** — racks and caps are not required.  
**Biacore X, Biacore J and BIAlite™** — use any of the vials and caps listed.







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28992438 AD 05/2015