

# Biacore systems and consumables

Products for interaction analysis

2008 <sup>EUR</sup>





# Base your decisions on the best

## Label-free interaction analysis

### **Biacore systems from GE Healthcare**

For over 15 years, Biacore™ systems have enabled comprehensive, label-free characterization of binding events, giving unique insights into how proteins and other biomolecules interact with each other, and helping scientists to better understand their biological functions.

The wealth of information provided by Biacore systems, such as binding kinetics, affinity, specificity, thermodynamics, and concentration, is valuable across many applications and plays a vital role in characterizing the binding properties of a wide range of molecules, from proteins to low molecular weight compounds. A broad portfolio of instruments, reagents, and convenience products supports the needs of scientists throughout academic research and pharmaceutical and biotechnology industry workflows. Biacore systems meet the high demands for quality, performance and regulatory compliance throughout research, drug discovery, development, manufacturing, and quality control.

For more information about Biacore systems and applications visit [www.biacore.com](http://www.biacore.com).

### **GE Healthcare**

The integration of Biacore's world-leading protein interaction analysis systems into the product portfolio of GE Healthcare Life Sciences creates a center of excellence that offers a wide-range of solutions to the life science community. Technical and commercial resources available through GE Healthcare will enable faster development of innovative products that fulfill your requirements for interaction analysis. Together we can produce unbeatable solutions to elucidate disease mechanisms, develop and produce novel therapeutics, detect and characterize immune responses, or purify and characterize protein therapeutics.



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# Label-free interaction analysis – from research to QC

## Biacore A100

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### Unmatched productivity



- Confident selection and optimization of lead compounds during drug discovery – label-free screening and characterization
  - Reduce costs in biotherapeutic development – early kinetic screening of hybridomas for mAb selection
  - Optimize safety and efficacy – define serum antibody responses in immunogenicity studies and immunotherapeutic development
  - Large-scale functionality studies – high quality, high information-content
- 

## Biacore T100

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### Unmatched performance



- One platform for highest quality comprehensive characterization - kinetics, affinity, specificity, concentration and thermodynamics
  - Confident selection and characterization of therapeutic candidates
  - Define potential drug targets and diagnostic markers
  - Optimize safety and efficacy – detect and characterize immune response in immunogenicity studies and immunotherapeutic development
  - Increase understanding of molecular mechanism, structure-function relationships and interaction profiles
- 

## Biacore Flexchip

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### Array-based parallel kinetic profiling



- Profile and compare hundreds of interactions in parallel and in real time without labeling
  - Select interactions of interest for downstream characterization
  - Map biomolecular interaction networks and understand their functions
  - Define epitopes and discover new biomarkers
  - Get more and new information in less time compared to classical assay formats
  - Versatile instrument with straightforward assay set up
  - Immobilise material such as proteins, peptides, nucleic acids, and carbohydrates, and see the interactions with agents such as proteins, viruses, bacteria and mammalian cells
- 

Contact your local representative for information on system pricing

## Biacore X100

Ready to run research system  
for protein interaction analysis



- Understand molecular mechanisms and interaction pathways
- Get up and running with label free interaction analysis in one day
- Add function to structure
- Select research tools, diagnostics and therapeutics
- Simple, robust and versatile operation
- Processes up to 15 samples per automated run

## Biacore C

Rapid and reliable protein quantification



Determine concentrations of protein therapeutics and vaccines

- Protein quantification within bioprocess development and analytical labs
- Quality control and stability studies in protein manufacturing
- Biopharmaceutical release testing

## Biacore 3000

Interaction analysis with SPR-MS interface




- Recover and characterize interaction partners using MALDI MS interface
- Elucidate disease mechanisms by characterizing native or recombinant protein interactions
- Define potential drug targets or diagnostic markers

Visit [www.biacore.com](http://www.biacore.com) for full system descriptions

# Which system is right for you?

Choosing the optimum system is not just a matter of looking at specifications. Biacore systems have been developed and designed to suit the many different ways in which label-free interaction analysis contributes to research, drug discovery and development, manufacturing and quality control. The table below may be used as a preliminary guide in choosing the right system. Your local representative will be pleased to discuss your needs in more detail.

Application/performance and technical specifications	Biacore T100 – Unmatched performance
	
<b>Application</b>	
Kinetic/affinity characterization	● ● ●
Kinetic/affinity screening & profiling	● ●
Single cycle kinetics	Yes
Concentration measurement	● ●
LMW interaction analysis	● ● ●
Thermodynamic characterization	● ● ●
Sample recovery for MS	● ●
<b>Performance and technical specifications</b>	
Detection spots/sensor surface	4
Throughput	● ●
Unattended run capacity	● ●
Automated data evaluation	● ●
User guidance	● ●
Cooled sample storage	● ● ●
Analysis temperature (°C)	4-45 (in-line degasser)
GxP compliance support	GxP Package

- ● ● Best
- ● Excellent
- Good
- Feature not included

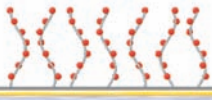
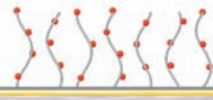
Biacore A100 – Unmatched productivity	Biacore Flexchip – Array-based parallel kinetic profiling	Biacore X100 - Ready to run research system	Biacore 3000 - Interaction analysis with SPR-MALDI interface	Biacore C - Rapid and reliable protein quantification
				
● ● ●	●	● ●	● ●	-
● ● ●	● ● ●	●	● ●	-
-	-	Plus Package	-	-
● ●	-	● ● Plus Package	●	● ● ●
● ● ●	-	-	●	-
●	-	● Plus Package	●	-
-	-	-	● ● ●	-
20	400	2	4	4
● ● ●	● ● ●	●	● ● ●	●
● ● ●	●	●	● ●	● ●
● ● ●	● ●	● ●	●	● ● ●
● ●	● ●	● ● ●	● ●	● ●
● ● ●	-	-	● ●	● ●
4-40 (in-line degasser)	20-37 (in-line degasser)	25 4-40 with Plus Package, (including in-line degasser)	4-40	25
GxP Package	-	-	GxP Package	Yes

# Sensor chip selection guide

To study an interaction, one of the interaction partners is immobilized onto the sensor surface of a sensor chip. Immobilization occurs by direct coupling to the surface or via a capturing molecule.

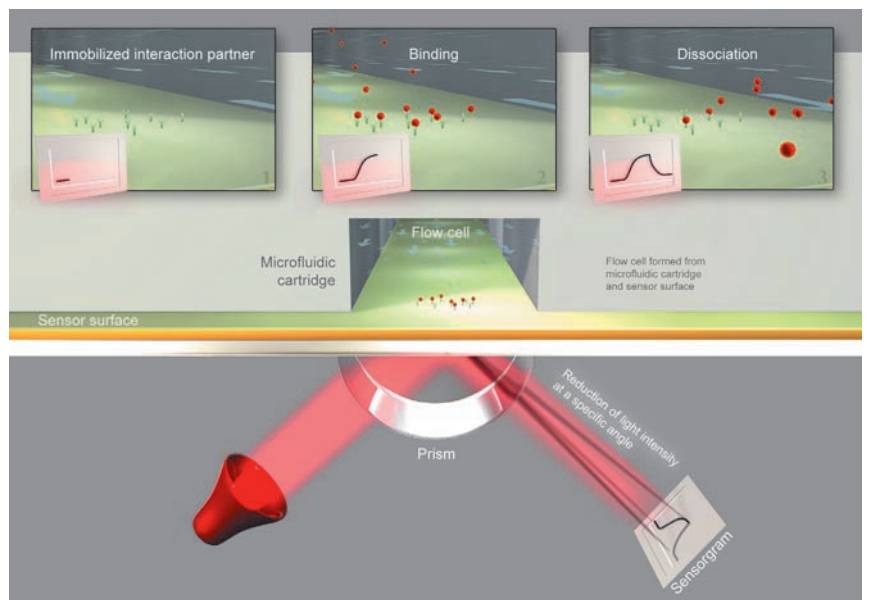
Interactions are monitored by injecting samples over the prepared sensor surface. Where appropriate, the sensor surface may be regenerated between injections by selective dissociation of the interaction partners. Regeneration solutions ensure complete dissociation, without affecting the binding characteristics of the immobilized partner.

A range of sensor chips ensures that the most suitable sensor surface can be chosen according to the nature of the molecule to be coupled and the requirements of the analysis. The surface concentration of the immobilized interaction partner may be varied according to the type of analysis. In general, concentration and specificity assays require a high surface concentration, while lower concentrations are preferable for kinetic analysis.

	Sensor Chip CM5	Sensor Chip CM4
Molecule to be immobilized		
Proteins	● The first choice for immobilization of proteins via -NH <sub>2</sub> , -SH, -CHO, -OH, -COOH	◐ Useful if contaminants have a high positive charge
Tagged proteins	● For GST-tags (surface is derivatized with anti-GST antibody)	
LMW molecules, typically <1000 Da	●	◐
Membrane-associated molecules		
Nucleic acids	● When modified with an amine group	◐ Useful if contaminants have a high positive charge
Carbohydrates	● When modified with an aldehyde group	◐ Useful if contaminants have a high positive charge
Viruses or intact cells		

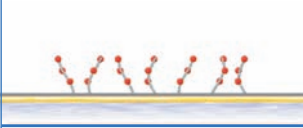

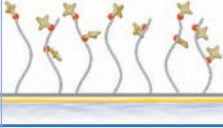

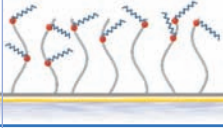

● Recommended choice

◐ Good alternative




Real-time interaction analysis utilizes the phenomenon of surface plasmon resonance.

Visit [www.biacore.com](http://www.biacore.com) for more information about individual sensor chips.

Sensor Chip CM3	Sensor Chip C1	Sensor Chip SA	Sensor Chip HPA	Sensor Chip L1	Sensor Chip NTA
					
○ If partner in solution is very large e.g. a molecular complex	○ If partner in solution is multivalent or very large e.g. a molecular complex	● When biotinylated			
					● For His-tags
○					
			● Incorporate molecule into a lipid monolayer	● Incorporate molecule into a lipid bilayer	
○ If partner in solution is very large e.g. a molecular complex	○ If partner in solution is multivalent or very large e.g. a molecular complex	● When biotinylated			
○ If partner in solution is very large e.g. a molecular complex	○ If partner in solution is multivalent or very large e.g. a molecular complex	● When biotinylated			
● Keep large particles close to the surface to maintain sensitivity	● Keep large particles close to the surface to maintain sensitivity				











Recommendations in this table are based on the experience of scientists who have studied thousands of different interactions since the first Biacore system was introduced.

### Sensor Chips














Sensor chips are available in three instrument-related formats. Please ensure that you order the correct format for your system. See pages 12 and 13. Descriptions of sensor chips for Biacore Flexchip can be found under ordering information on page 13.

# Sensor chips











Series S sensor chips for Biacore A100, Biacore T100 and Biacore S51				
Product name	Description	Quantity	Order code	Price/EUR
<b>Series S Sensor Chip CM5 (certified)</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	BR-1005-30	830,00
<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	BR-1006-68	481,00
<b>Series S Sensor Chip CM4 (certified)</b> 	Use when sample contaminants have a high positive charge.	Pack of 3	BR-1005-34	724,00
<b>Series S Sensor Chip CM3 (certified)</b> 	Use when the interaction partner in solution is very large.	Pack of 3	BR-1005-36	724,00
<b>Series S Sensor Chip C1 (certified)</b> 	Use when the interaction partner in solution is multivalent or very large.	Pack of 3	BR-1005-35	724,00
<b>Series S Sensor Chip NTA (certified)</b> 	Use for immobilization of histidine-tagged molecules. Format compatible with Biacore S51 but no system support.	Pack of 3	BR-1005-32	1.490,00
<b>Series S Sensor Chip SA (certified)</b> 	Use for immobilization of biotinylated peptides, proteins, nucleic acids or carbohydrates.	Pack of 3	BR-1005-31	787,00
<b>Series S Sensor Chip L1 (certified)</b> 	Use to incorporate a molecule into a lipid bilayer.	Pack of 3	BR-1005-38	887,00
<b>Series S Sensor Chip HPA (certified)</b> 	Use when working with model membrane systems. Format compatible with Biacore S51 but no system support.	Pack of 3	BR-1005-33	1.040,00
<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. Recommended for use with Biacore T100 only.	1 kit: including 10 sensor surfaces Au, 16 adhesive strips, 10 sensor chip supports, 1 protective sheath, 1 assembly unit	BR-1004-05	648,00

Certified sensor chips are the first choice for use in regulated environments. All certified chips are subjected to the highest stringency of QC and are delivered with a Certificate of QC.




Sensor chips for other systems				
Product name	Description	Quantity	Order code	Price/EUR
<b>Sensor Chip CM5 (certified)</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	BR-1000-12	855,00
<b>Sensor Chip CM5 (research grade)</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	BR-1000-14 BR-1003-99	370,00 138,00
<b>Sensor Chip CM4</b> 	Use when sample contaminants have a high positive charge.	Pack of 3	BR-1005-39	432,00
<b>Sensor Chip CM3</b> 	Use when the interaction partner in solution is very large.	Pack of 3	BR-1005-41	501,00
<b>Sensor Chip C1</b> 	Use when the interaction partner in solution is multivalent or very large.	Pack of 3	BR-1005-40	473,00
<b>Sensor Chip NTA</b> 	Use for immobilization of histidine-tagged molecules.	Pack of 3 Pack of 1	BR-1000-34 BR-1004-07	1.055,00 385,00
<b>Sensor Chip SA</b> 	Use for immobilization of biotinylated peptides, proteins, nucleic acids or carbohydrates.	Pack of 3 Pack of 1	BR-1000-32 BR-1003-98	666,00 246,00
<b>Sensor Chip L1</b> 	Use to incorporate a molecule into a lipid bilayer.	Pack of 3 Pack of 1	BR-1005-43 BR-1005-58	728,00 271,00
<b>Sensor Chip HPA</b> 	Use when working with model membrane systems.	Pack of 3 Pack of 1	BR-1000-30 BR-1004-06	739,00 273,00
<b>Sensor Chip Au</b> 	Untreated gold surfaces.	Pack of 3	BR-1005-42	378,00
<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.	1 kit: including 10 sensor surfaces Au, 16 adhesive strips, 10 sensor chip supports, 1 protective sheath, 1 assembly unit	BR-1004-05	648,00

Biacore Flexchip affinity chips				
Product name	Description	Quantity	Order code	Price/EUR
<b>Gold Affinity Chip Set</b>	Unmodified gold-coated chips.	4 × chips, 4 × pre-gasketed windows	BR-1007-00	513,00
<b>NeutrAvidin® Affinity Chip Set</b>	Chips designed for spotting biotinylated materials that bind to NeutrAvidin.	4 × chips, 4 × pre-gasketed windows	BR-1007-13	685,00
<b>Protein A/G Affinity Chip Set</b>	Chips designed for spotting antibodies or other materials that bind to protein A or protein G.	4 × chips, 4 × pre-gasketed windows	BR-1007-12	596,00
<b>Streptavidin Affinity Chip Set</b>	Chips designed for spotting biotinylated materials that bind to streptavidin.	4 × chips, 4 × pre-gasketed windows	BR-1007-02	685,00







# Reagents, buffers and solutions

Immobilization reagents				
Product name	Description	Contents	Order code	Price/EUR
<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-dimethylamino-propyl)carbodiimide hydrochloride (EDC), 115 mg N-hydroxysuccinimide (NHS), 10.5 ml 1.0 M ethanolamine-HCl pH 8.5	<b>BR-1000-50</b>	236,00
<b>Amine Coupling Kit, type 2</b> For 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-dimethylamino-propyl)carbodiimide hydrochloride (EDC), 115 mg N-hydroxysuccinimide (NHS), 2 x 10.5 ml 1.0 M ethanolamine-HCl pH 8.5	<b>BR-1006-33</b>	383,00
<b>Thiol Coupling Kit</b> 	Reagents and coupling solutions for performing molecule and/or surface thiol couplings. Contains reagents for 50 surface thiol immobilizations or 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	<b>BR-1005-57</b>	660,00
<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 <sup>1)</sup> .	100 mg 2-(2-pyridinyldithio) ethaneamine hydrochloride (PDEA)	<b>BR-1000-58</b>	171,00
<b>Acetate 4.0</b> 	Immobilization buffer, 10 mM sodium acetate pH 4.0	1 x 50 ml	<b>BR-1003-49</b>	72,00
<b>Acetate 4.5</b> 	Immobilization buffer, 10 mM sodium acetate pH 4.5	1 x 50 ml	<b>BR-1003-50</b>	72,00
<b>Acetate 5.0</b> 	Immobilization buffer, 10 mM sodium acetate pH 5.0	1 x 50 ml	<b>BR-1003-51</b>	72,00
<b>Acetate 5.5</b> 	Immobilization buffer, 10 mM sodium acetate pH 5.5	1 x 50 ml	<b>BR-1003-52</b>	72,00
<b>Borate 8.5</b> 	Immobilization buffer, 10 mM disodium tetraborate pH 8.5, 1 M NaCl	1 x 50 ml	<b>BR-1003-53</b>	72,00
<b>Flexchip Blocking Buffer 10X</b> 	Concentrated solution. Minimizes non-specific binding on an affinity chip.	1 x 250 ml Proteinaceous solution (protein of mammalian origin – not BSA) in phosphate buffered saline (pH 7.4), containing the antimicrobial agent, KATHON®	<b>BR-1007-08</b>	111,00




<sup>1)</sup> The use of these products in Biacore systems requires the Amine Coupling Kit with Sensor Chip CM5, CM4, CM3 or C1.



Capture reagents				
Product name	Description	Contents	Order code	Price/EUR
<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 <sup>1</sup> .	Goat anti-GST antibody, 0.8 mg/ml in 75 µl coupling solution, 5 ml positive control: recombinant GST ( <i>Schistosoma japonicum</i> ), 0.2 mg/ml in 100 µl HBS-EP regeneration solution, 70 ml	<b>BR-1002-23</b>	735,00
<b>Mouse Antibody Capture Kit</b> 	Reagents for capture of mouse IgG antibodies in biomolecular interaction analyses. Sufficient for 10 immobilizations and 1000 regenerations <sup>1</sup> .	Anti-Mouse IgG antibodies, 1 mg/ml in 0.15 M NaCl, 50 µl, Immobilization buffer, 1 ml, Regeneration solution, 95 ml	<b>BR-1008-38</b>	242,00
<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 <sup>1</sup> .	Anti-Human IgG (Fc) antibody, 0.5 mg/ml in 0.15 M NaCl, 50 µl, Immobilization buffer, 1 ml, Regeneration solution, 95 ml	<b>BR-1008-39</b>	445,00







<sup>1</sup> The use of these products in Biacore systems requires the Amine Coupling Kit with Sensor Chip CM5, CM4, CM3 or C1.

Regeneration solutions				
Product name	Description	Contents	Order code	Price/EUR
<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 sodium chloride, 20 ml Surfactant P20	<b>BR-1005-56</b>	464,00
<b>Glycine 1.5</b> 	10 mM glycine-HCl pH 1.5	1 × 100 ml	<b>BR-1003-54</b>	72,00
<b>Glycine 2.0</b> 	10 mM glycine-HCl pH 2.0	1 × 100 ml	<b>BR-1003-55</b>	72,00
<b>Glycine 2.5</b> 	10 mM glycine-HCl pH 2.5	1 × 100 ml	<b>BR-1003-56</b>	72,00
<b>Glycine 3.0</b> 	10 mM glycine-HCl pH 3.0	1 × 100 ml	<b>BR-1003-57</b>	72,00
<b>NaOH 50</b> 	50 mM NaOH	1 × 100 ml	<b>BR-1003-58</b>	72,00








# Reagents, buffers and solutions

Running buffers				
Product name	Description	Contents	Order code	Price/EUR
<b>HBS-EP</b> For all systems except Biacore X100, Biacore A100, Biacore T100, Biacore S51 and Biacore Flexchip 	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	<b>BR-1001-88</b>	67,00
<b>HBS-P</b> For all systems except Biacore X100, Biacore A100, Biacore T100, Biacore S51 and Biacore Flexchip 	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	<b>BR-1003-68</b>	67,00
<b>HBS-N</b> For all systems except Biacore X100, Biacore A100, Biacore T100, Biacore S51 and Biacore Flexchip 	Degassed and ready to use 0.01 M HEPES pH 7.4, 0.15 M NaCl	6 × 200 ml	<b>BR-1003-69</b>	67,00
<b>HBS-EP+ 10X</b> For Biacore A100, 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 (for Biacore A100 and Biacore T100)  4 × 50ml (for Biacore X100)	<b>BR-1006-69</b>  <b>BR-1008-26</b>	337,00  76,00
<b>HBS-P+ 10X</b> For Biacore A100, 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 (for Biacore A100 and Biacore T100)  4 × 50ml (for Biacore X100)	<b>BR-1006-71</b>  <b>BR-1008-27</b>	337,00  76,00
<b>HBS-N 10X</b> For Biacore A100, 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 (for Biacore A100 and Biacore T100)  4 × 50ml (for Biacore X100)	<b>BR-1006-70</b>  <b>BR-1008-28</b>	337,00  76,00
<b>PBS 10X</b> For all systems except Biacore Flexchip 	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. (PBS buffer with DMSO is commonly used for small molecule assays.)	1 × 1000 ml	<b>BR-1006-72</b>	119,00

Additives				
Product name	Description	Contents	Order code	Price/EUR
<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	<b>BR-1006-91</b>	100,00
<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	<b>BR-1000-54</b>	145,00

Maintenance kits				
Product name	Description	Contents	Order code	Price/EUR
<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 (BR-1008-26) for Biacore X100, or HBS-EP buffer (BR-1001-88) 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), BIAdisinfecant solution (conc.) (10 ml), Sensor Chip Maintenance	<b>BR-1006-66</b>	98,00
<b>Biacore Maintenance Kit</b> For Biacore C 	Convenient kit for proper instrument maintenance. Sufficient for 6 months normal usage. Additional HBS-EP buffer (BR-1001-88) should be ordered separately.	BIAtest solution (65 ml), BIAnormalizing solution (30 ml), BIAdesorb solution 1 (90 ml), BIAdesorb solution 2 (90 ml), BIAdisinfecant solution (conc.) (10 ml), HBS-EP buffer (200 ml), Sensor Chip Maintenance, Sensor Chip System Check, vials and caps	<b>BR-1006-67</b>	140,00
<b>Biacore Maintenance Kit, type 2</b> For Biacore A100, Biacore T100 and Biacore S51 	Convenient kit for proper instrument maintenance. Sufficient for 3 – 4 months (Biacore T100, Biacore S51) or 1 – 2 months (Biacore A100) normal usage. Additional HBS-N buffer (BR-1006-70) 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), BIAdisinfecant solution (conc.) (3 × 10 ml), HBS-N buffer 10X (50 ml), Sensor Chip Maintenance	<b>BR-1006-51</b>	217,00
<b>Desorb Kit</b> 	For cleaning the flow system in the Biacore Flexchip system. Sufficient for 2.5 months of normal usage.	BIAdesorb solution 1 (500 ml), BIAdesorb solution 2 (500 ml)	<b>BR-1008-23</b>	128,00
<b>Flexchip Test Solution Kit</b> 	For checking system performance.	100 ml of Flexchip Test Solution 1, 100 ml of Flexchip Test Solution 2	<b>BR-1007-24</b>	111,00
<b>Flexchip Startup Kit</b> 	Contains everything required to start working with Biacore Flexchip (included with new system purchase).	Gold Affinity Chip Set, 10X blocking buffer, Flexchip Test Solution Kit, Flexchip Training Kit, running buffer and sample tubes (x25)	<b>BR-1007-03</b>	1.290,00

# Accessories

Vials					
Product name		Description	Contents	Order code	Price/EUR
Glass Vials, Ø 9 mm		1.8 ml borosilicate vials	600 vials	BR-1002-07	159,00
Autosampler Vial Kit, Ø 9 mm		Glass vials, crimp caps and septa	50 of each	BR-1000-11	46,00
Glass Vials, Ø 16 mm		4.0 ml borosilicate screw top glass vials	500 vials	BR-1002-09	171,00
Plastic Vials, Ø 7 mm		0.8 ml rounded polypropylene microvials	1000 vials	BR-1002-12	158,00
Plastic Vials, Ø 11 mm		1.5 ml polypropylene vials with wide opening that allows a pipette to reach the bottom	500 vials	BR-1002-87	49,00
Plastic Vials, Ø 15 mm		4.0 ml polypropylene vials	1000 vials	BR-1006-54	204,00
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	BR-1002-14	133,00
Flexchip Sample Vials		5.0 ml polypropylene vials	25 vials	BR-1007-06	23,00

Caps					
Product name		Description	Contents	Order code	Price/EUR
Crimp Caps and Septa, 9 mm		Penetrable septa	500 caps with septa	BR-1002-08	171,00
Caps and Septa, 16 mm		Polypropylene screw caps and high quality silicone/PTFE septa. To be resealed after use.	500 caps and 500 septa	BR-1002-11	295,00
Caps, 16 mm		Polyethylene snap caps <b>These caps are only to be used for storage (together with BR-1002-09), not to be used in the instrument.</b>	500 caps	BR-1002-10	107,00
Caps, 7 mm		Thin polyethylene snap caps	1000 caps	BR-1002-13	132,00
Rubber Caps		Penetrable cap made of kraton G (SEBS). Air tight after penetration.	400 caps	BR-1002-86	198,00
Rubber Caps, type 2		Penetrable cap made of kraton G (SEBS). <b>Ventilated</b>	400 caps	BR-1004-11	198,00
Rubber Caps, type 3		Penetrable cap made of kraton G (SEBS). <b>Ventilated</b>	600 caps	BR-1005-02	101,00
Rubber Caps, type 4		Penetrable cap made of kraton G (SEBS). Air tight after penetration.	600 caps	BR-1005-55	101,00
Rubber Caps, type 5		Penetrable cap made of kraton G (SEBS). <b>Ventilated</b>	400 caps	BR-1006-55	149,00

# Accessories

Sample and reagent racks		
Product name	Order code	Price/EUR
<b>Reagent Rack, type 1</b> for Biacore T100 and Biacore S51	<b>BR-1004-81</b>	528,00
<b>Reagent Rack, type 2</b> for Biacore T100 and Biacore S51	<b>BR-1004-82</b>	528,00
<b>Sample and Reagent Rack, type 1</b> for Biacore T100	<b>BR-1006-53</b>	689,00

Additional information		
No. of vials in rack	Vial type	Cap type
20 × 11 mm	<b>BR-1002-87</b>	<b>BR-1004-11</b>
9 × 16 mm 24 × 7 mm	<b>BR-1002-09</b> <b>BR-1002-12</b>	<b>BR-1004-11</b> <b>BR-1005-02</b>
45 × 7 mm 24 × 11 mm	<b>BR-1002-12</b> <b>BR-1002-87</b>	<b>BR-1005-02</b> <b>BR-1004-11</b>
9 × 16 mm	<b>BR-1006-54</b> or <b>BR-1002-09</b>	<b>BR-1006-55</b> <b>BR-1004-11</b>

<b>Thermo Rack A</b> for Biacore 3000 / 2000 / 1000 / BIAcore	<b>BR-1001-36</b>	211,00
<b>Thermo Rack B</b> for Biacore 3000 / 2000 / 1000 / BIAcore	<b>BR-1001-37</b>	211,00
<b>Thermo Rack C</b> for Biacore 3000 / 2000 / 1000 / BIAcore	<b>BR-1001-38</b>	211,00
<b>Thermo Rack F</b> for Biacore C	<b>BR-1003-36</b>	211,00

5 × 16 mm 12 × 9 mm 40 × 7 mm	<b>BR-1002-09</b> <b>BR-1002-07</b> <b>BR-1002-12</b>	<b>BR-1002-11</b> or <b>BR-1002-86</b> <b>BR-1002-08</b> or <b>BR-1005-55</b> <b>BR-1002-13</b> or <b>BR-1005-55</b>
60 × 9 mm	<b>BR-1002-07</b>	<b>BR-1002-08</b> or <b>BR-1005-55</b>
24 × 11 mm	<b>BR-1002-14</b> or <b>BR-1002-87</b>	<b>BR-1002-86</b>
6 × 16 mm 18 × 11 mm	<b>BR-1002-09</b> <b>BR-1002-14</b> or <b>BR-1002-87</b>	<b>BR-1004-11</b> <b>BR-1004-11</b>

<b>Reagent Rack A</b> for Biacore 3000	<b>BR-1003-80</b>	158,00
<b>Reagent Rack B</b> for Biacore C	<b>BR-1004-12</b>	158,00
<b>Reagent Rack C</b> for Biacore C	<b>BR-1004-13</b>	158,00

4 × 16 mm 4 × 11 mm	<b>BR-1002-09</b> <b>BR-1002-14</b> or <b>BR-1002-87</b>	<b>BR-1002-11</b> or <b>BR-1002-86</b> <b>BR-1002-86</b>
6 × 16 mm 1 × 11 mm 2 × 7 mm	<b>BR-1002-09</b> <b>BR-1002-14</b> or <b>BR-1002-87</b> <b>BR-1002-12</b>	<b>BR-1004-11</b> <b>BR-1004-11</b> <b>BR-1005-02</b>
20 × 7 mm	<b>BR-1002-12</b>	<b>BR-1005-02</b>

<b>Biacore X100 Sample and Reagent Rack</b> for Biacore X100	<b>BR-1007-99</b>	114,00
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15 × 11 mm 1 × 15 mm	<b>BR-1002-87</b> <b>BR-1006-54</b>	<b>BR-1004-11</b> No cap
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**Biacore A100** – racks and caps are not required.

**Biacore X, Biacore J and BIAlite** – use any of the vials and caps listed.

**Biacore Flexchip** – use only BR-1007-06 Biacore Flexchip Sample Vials.

# Accessories

Miscellaneous														
Product name	Description	Order code	Price/EUR	Flexchip	A100	T100	X100	X	S51	J	3000	2000	1000	C
Microplate 384-well	100 × polystyrene microplates	BR-1005-05	403,00	•	•			•						
Microplate Foil (384-well)	100 × self-adhesive, transparent plastic foils	BR-1005-77	332,00	•	•			•						
Microplate 96-well	100 × polystyrene microplates	BR-1005-03	78,00	•	•			•		•	•	•	•	
Microplate Foil (96-well)	100 × self-adhesive, transparent plastic foils	BR-1005-78	332,00	•	•			•		•	•	•	•	
96-well Microplates and Foils	50 × polystyrene microplates and aluminum foils	BR-1003-83	184,00							•	•	•	•	
Microplate Cover	1 × cover used with aluminum foils to shield light-sensitive samples in microplates	BR-1004-20	27,50							•	•	•	•	
Reagent Plate and Foil	100 × 24-well disposable reagent plates with self-adhesive, transparent plastic foils	BR-1006-08	943,00	•										
Rack Tray	1 × tray for holding reagent rack and microplate	BR-1004-83	1.810,00		•			•						
Rack Tray, type 3	1 × tray for holding reagent rack and microplate	BR-1006-09	1.100,00	•										
Chip Assembly Tool	Used to affix a pre-gasketed window to an affinity chip to create a flow cell	BR-1007-09	640,00	•										
Bottle, 1000 ml	1 × high-density polyethylene (HDPE) bottle for holding buffers	BR-1007-07	8,50	•										
Bottle, 2000 ml	1 × borosilicate screw top glass bottle and polypropylene screw cap with GL 45 thread. Use for holding buffer or waste	BR-1004-88	36,50		•			•						
Bottle, 1000 ml	As above	BR-1004-84	27,50	•	•			•						
Bottle, 500 ml	As above	BR-1000-92	33,50		•	•				•	•	•	•	
Bottle, 250 ml	As above	BR-1004-80	17,00		•			•						
Bottle Cap Assembly	1 × polypropylene screw cap adapted for tubing insertion. For use with bottle BR-1000-92	BR-1000-93	33,50							•	•	•	•	
Tool Kit	Tools for instrument maintenance. Required for removal of covers	BR-1001-43	212,00					•	•	•	•	•	•	•
Series S Tool Kit	Tools for instrument maintenance. Required for removal of covers	BR-1004-94	19,00		•			•						
Tool Kit, type 3	Required for removal of Biacore A100 design panels	BR-1006-87	30,50	•										
External Connector, Temperature Control	Inlet and outlet connectors for external cooling water	BR-1000-65	272,00							•	•	•	•	
Compressor 115 V providing air supply	1 × compressor	BR-1002-18	1.490,00					•						
Compressor 220 V	1 × compressor providing air supply	BR-1002-19	1.490,00					•						

# Replacement parts

Miscellaneous					Flexchip	X100	X	J	3000	2000	1000	C
Connector Block, type 3	For connection between injection port and IFC type 5 with built-in injection port	BR-1002-78	942,00			•						
Connector Block, type 4	For connection between autosampler and IFC type 6 and type 4. Includes injection port	BR-1003-40	761,00					•			•	
Connector Block, type 5	For connection between injection port and IFC type 7. Includes injection port	BR-1003-92	955,00			•						
Recovery Block	For connection between autosampler and IFC type 3 and 4. Includes injection port and 350 µl recovery cup	BR-1002-34	835,00						•	•		
Injection Port	1 × replacement injection port for use in BR-1002-34 Recovery block and BR-1003-40 Connector block	BR-1001-67	75,00					•	•	•	•	
Injection Port, type 2	1 × injection port for 200 µl pipette tips	BR-1003-95	54,50				•					
Injection Port, type 3	1 × injection port for 1000 µl pipette tips	BR-1003-96	54,50				•					
Peristaltic Pump Tubing Kit	2 × tube sets (tubing with connectors)	BR-1003-94	374,00				•					
Peristaltic Pump Tubing Kit	2 × tube sets	BR-1007-23	74,00	•								
Flow Cell Carrier, type 1	1 × flow cell for Surface Prep unit. For 4 individual flow cells	BR-1004-23	600,00					•				
Injection Block, type 1	1 × injection block for Surface Prep unit. For connection between autosampler and Flow Cell Carrier, type 1	BR-1004-24	396,00					•				
Flow Cell Carrier, type 2	1 × flow cell for Surface Prep unit forming one large flow cell	BR-1005-72	587,00					•				
Injection Block, type 2	1 × injection block for Surface Prep unit. For connection between autosampler and Flow Cell Carrier, type 2	BR-1005-73	388,00					•				
Injection Needle	1 × stainless steel needle for autosampler	BR-1001-70	150,00					•	•	•		
Injection Needle, type 2	1 × stainless steel needle for autosampler	BR-1003-41	150,00	•								•
Autosampler Tubing	1 × Tefzel tube	BR-1001-30	73,00					•	•	•	•	
PEEK Ferrule	10 × ferrules for flangeless connection of PEEK tubing	BR-1002-60	61,50		•			•	•	•	•	
PEEK Nut	2 × nuts for connecting PEEK tubing	BR-1002-61	19,00		•			•	•	•	•	
Syringe, 500 µl	1 × complete glass syringe and plunger for pumps	BR-1000-84	348,00	•	•			•	•	•	•	
Plunger	1 × spare plunger for syringe, 500 µl	BR-1001-96	136,00	•	•			•	•	•	•	
Syringe Maintenance Kit	1 × replacement parts for syringe (includes pump seal and o-ring)	BR-1000-89	136,00	•	•			•	•	•	•	
Peristaltic Pump Tubing Kit, type 4	1 × tube set, for Biacore X100	BR-1008-02	98,50	•								
Ferrule, type 2	1 × ferrule, for injection needle, Biacore X100	BR-1008-35	36,50	•								

Biacore A100 / Biacore T100 / Biacore S51 – There are no orderable replacement parts for these products.

# Service and support

Get the most out of label-free interaction analysis

Our goal is to provide you with the optimum level of support so that your Biacore system continues to make a key contribution to your work. In addition to dedicated field support from our application scientists and service engineers, a comprehensive range of support tools and information services is available on [www.biacore.com](http://www.biacore.com)



### **Instrument service**

Starting with installation, dedicated service engineers will provide you with quality service to maintain long-term, trouble-free performance of your system

- Service contracts and Extended Warranty Options are available for cost control and priority service
- Preventive maintenance visits ensure your system is in excellent working condition and performs according to specifications

### **Validation support**

For our 21CFR Part 11 compliant systems\* used in GLP/GMP/GCP environments we offer validation and qualification services including

- GxP documentation
- GxP Services with IQ/OQ/IPQ performed on-site

Equipment qualification is performed by GxP-trained, qualified service engineers when the system is installed in its selected operating environment.

### **Training**

A range of courses and train-yourself tools is available to ensure that you get the most out of your protein interaction analyses

- E-learning courses on our website provide learning opportunities whenever it is suitable for you
- System-specific train-yourself tools familiarize you with your Biacore system
- Class room training in small groups allows for individual support from our experienced lecturers
- On-site training may be provided upon request

### **Application support**

Our experienced application specialists offer customized support to answer your specific questions

- Personal advice on assay setup and assay development
- Help with troubleshooting

### **Support tools on website**

- Tech tips & protocols
- BIA simulation software for dry-run experiments
- Interactive Tutorial: learn how to setup, run and evaluate Biacore analyses
- Immobilization and regeneration database for experimental tips
- Download section
  - Latest software version
  - Handbooks and product-specific material
  - Latest news about your system

\* See Biacore System Selection table on page 8-9 for information on 21 CFR Part 11 compliant systems

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