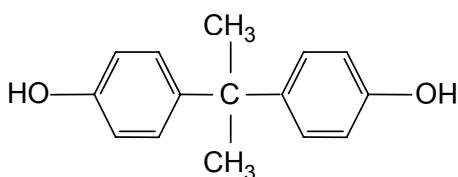


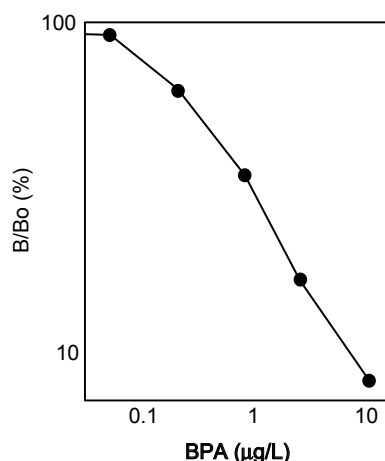
Supersensitive Bisphenol A (BPA) ELISA Kit

Bisphenol A (BPA) is an important industrial chemical that is used primarily as raw material for polycarbonate and epoxy resins. BPA is known to be one of the endocrine disrupting chemicals.



The supersensitive Bisphenol A (BPA) EIA kit easily and specifically detects BPA in environmental samples. GC/MS, a commonly employed method for quantitative BPA analysis, requires expensive instrumentation as well as complex and time consuming extraction process using hazardous organic solvents. With the aid of a simple solid phase extraction this EIA kit detects BPA in environment or in vitro at a ppt level (ng/L).

The analysis is based on a competitive reaction where enzyme-labelled standard BPA competes with free BPA in the sample for binding to a specific monoclonal antibody immobilised to the surface of the microtiter plate or tube. The amount of labelled BPA bound to the plate is determined by addition of a non-coloured substrate which is converted into a coloured product. The colour intensity is measured at 450 nm and is inversely proportional to the amount of BPA in the sample. The assay is calibrated using a standard solution of BPA supplied with the kit.



The Bisphenol A (BPA) EIA kit is suitable for analyses of water samples.

The assay is highly sensitive, simple and rapid to perform. The standard curve working range is 0.05-10 µg/L BPA. A simple solid phase extraction protocol is available for samples with very low concentrations of BPA.

The kit is available in microplate (96 wells) format.



*) *The Bisphenol A (BPA) EIA kit is licensed from Tokiwa Chemical Industries, Ltd.*

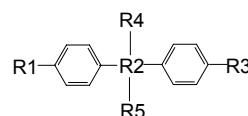
www.biosense.com

Biosense Laboratories AS, Thormøhlensgt. 55, N-5008 Bergen, Norway
Phone: +47 55543966, Fax: +47 55543771, e-mail: biosense@biosense.com



Cross-reactivity pattern

Compound	Reactivity (%)
Bisphenol A (BPA)	100.0
Diethylhexylphtalate (DEHP)	< 0.05
Nonylphenol (NP)	0.19
17 β -Estradiol (E2)	<0.05
Estrone (E1)	<0.05
Linear alkylbenzene sulfonate (LAS)	<0.05
Alkylphenol ethoxylate (APE)	<0.05
Alkyl ethoxylate (AE)	<0.05
Fumic soda	<0.05



No.		R1	R2	R3	R4	R5	CR(%)
1	Bisphenol A (BPA)	OH	C	OH	CH ₃	CH ₃	100
2	Bisphenol B (BPB)	OH	C	OH	CH ₃	C ₂ H ₅	15.6
3	Bisphenol E (BPE)	OH	C	OH	H	CH ₃	6.0
4	Bisphenol S (BPS)	OH	SO ₂	OH	-	-	0.2
5	BPA Dimethacrylate		C		CH ₃	CH ₃	0.7
6	BPA Diglycidyl Ether		C		CH ₃	CH ₃	<0.1
7	BPA Diacetate	OOCCH ₃	C	OOCCH ₃	CH ₃	CH ₃	0.2
8	Bis(p-hydroxyphenyl)methane	OH	C	OH	H	H	1.8
9	1,2-Bis(4-hydroxyphenyl)-2-propanol	OH	CH ₂ C	OH	OH	CH ₃	0.4
10	2,2'-Bis(4-hydroxyphenyl)-1-propanol	OH	C	OH	CH ₃	CH ₂ OH	1.7
11	Bis[4-(2-hydroxyethoxy)phenyl]sulfone	O(CH ₂) ₂ OH	SO ₂	O(CH ₂) ₂ OH	-	-	<0.1
12	BPX-33		C		CH ₃	CH ₃	<0.1
13	4,4'-Bis(p-hydroxyphenyl) pentanoic acid	OH	C	OH	CH ₃	C ₂ H ₄ COOH	<0.1
14	p,p'-dihydroxybenzophenone	OH	C	OH	-	O	<0.1
15	4,4'-dihydroxydiphenyl ether	OH	O	OH	-	-	0.2

www.biosense.com

Biosense Laboratories AS, Thormøhlensgt. 55, N-5008 Bergen, Norway
 Phone: +47 55543966, Fax: +47 55543771, e-mail: biosense@biosense.com