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BPA Environmental Estrogen ELISA Kit with Immunoaffinity Columns

Cat # BPA1-IA: ELISA kit for measuring BPA in biological and environmental samples:
\$497

This is the same ELISA kit as our Cat# BPA1 kit only we have added 10 immunoaffinity columns for one-step purification of BPA. Each immunoaffinity column can bind up to 1 microgram of BPA. No extraction with organic solvents is necessary.

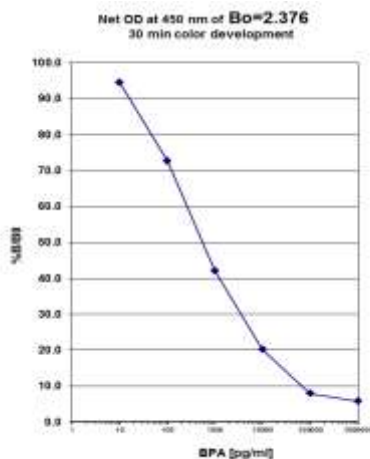
Buy in Quantity and Save! 2-4 kits \$472 each; 5-9 kits \$447 each; 10 or more kits \$422 each

This competitive ELISA kit is for determination of BPA levels in biological samples, human and animal dietary food, water and wastewater. A typical standard curve of the ELISA (detection limit of less than 10 pg/ml) is shown in the bottom left corner. BPA is a phenolic environmental estrogen¹, which disrupts endocrine activity. In human, a BPA glucuronide was the primary metabolite of BPA². In a recent study, the age group with the highest BPA exposure levels was the 6-11 year old group with a mean total (free + glucuronidated) BPA level of 4.33 ng/g of creatinine³. Urinary BPA levels have been correlated to cardiovascular diseases and diabetes⁴. A recent study revealed that a 12-ounce serving of canned soup for 5 days increased urinary BPA level 12-fold due to lining of the can with an epoxy resin containing BPA⁵. BPA levels in liquid obtained from canned soups (approximately 10 ng/mL) were measured using this ELISA kit⁶. The BPA ELISA kit was also recently used to measure BPA levels in sewage effluent of a large municipal area⁷.

Buy in Quantity and Save! 2-3 kits \$258 each; 5-9 kits \$245 each; 10 or more kits \$231 each

Specificity of the BPA ELISA

BPA	100%
BPF	<0.01%
BPS	<0.01%
Resveratrol	<0.01%



1. Zhao M, Zhou S, Yan J, Li L. Immunochemical analysis of endogenous and exogenous estrogens. *Current Pharmaceutical Analysis* (2007) 3, 25-38.
2. Völkel W, Colnot T, Csanády GA, Filser JG, Dekant W. Metabolism and kinetics of bisphenol a in humans at low doses following oral administration *Chem Res Toxicol* 15, 1281-1287 (2002).
3. Fourth National Report on human exposure to environmental chemicals. Centers' for Disease Control and Prevention (2009) www.cdc.gov/exposurereport.
4. Lang IA, Galloway TS, Scarlett A, et al. Association of urinary bisphenol A concentration with medical disorders and laboratory abnormalities in adults. *JAMA*. 300, 1303-1310 (2008).
5. Carwile JL, Ye X, Zhou X, Calafat AM, Michels KB. Canned soup consumption and urinary bisphenol A: a randomized crossover trial *JAMA*. 306, 2218-2220 (2011).
6. Joiakim A, Kaplan D, Friedrich K, Putt D, Kim H. Bisphenol A (BPA) levels in liquid supernatants of canned foods determined by highly sensitive BPA ELISA. *Society of Toxicology Abstract #2328* (2013).
7. Santos, Julia M., Aby Joiakim, David Putt, Forrest Hosea, Mike Jurban, Hyesook Kim. Differential BPA levels in sewage wastewater effluents from metro Detroit communities. *Society of Toxicology Abstract # 1137* (2016).