

# Water Quality Monitoring

Water quality monitoring enables you to be able to act quickly if toxic levels of chemicals are present in water samples. Harmful effects of endocrine disrupting chemicals (EDCs) and emerging contaminants affect organisms causing a wide range of developmental, reproductive, neurological, or metabolic effects in humans and wildlife.

## Are Traditional Water Quality Methods Enough?

Traditional techniques rely on analyses of individual contaminants. However, real world exposure generally occurs as mixtures of different chemical compounds. This presents risks to humans and the environment from:

- chemicals without toxicity information
- the presence and concentrations of other compounds
- chemicals that work together to increase toxic potential

To understand the risk posed by complex samples, cell-based assays are needed to characterize cumulative effects of multiple contaminants on humans and other organisms.

## Functional Assays: The Next Wave in Evaluating Water Quality

Cell-based reporter assays such as those provided by INDIGO Biosciences screen for total bioactivity for a specific pathway of importance. They can detect the toxicity of unknown chemical pollutants and can account for their cumulative effects, simplifying the issues posed by complex mixtures in analytical methods. INDIGO has an extensive list of cell-based bioassays that are predictive of cellular toxicity pathways including endocrine disruption, altered xenobiotic metabolism, and adaptive stress responses. View INDIGO's list of available reporter assays on the back.



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# Assay Kits for Water Quality Monitoring

Prod #	Receptor	Prod #	Receptor
<b>ENDOCRINE DISRUPTION</b>			
EM03001	Androgen Receptor (AR)	EM00201	Glucocorticoid Receptor (GR)
EM00431	Estrogen Receptor Alpha (ERa)	IB0500	Progesterone Receptor (PGR)
IB0041	Estrogen Receptor Beta (ERb)	IB0100	Thyroid Hormone Receptor Alpha (TRa)
<b>XENOBIOTIC METABOLISM</b>			
EM06001	Aryl Hydrocarbon Receptor (AhR)	IB0060	Farnesoid X Receptor (FXR)
IB0092	Constitutive Androstane Receptor-2	IB0700	Pregnane X Receptor (PXR)
IB0090	Constitutive Androstane Receptor-3	IB0070	Vitamin D Receptor (VDR)
<b>TOXICITY &amp; INFLAMMATION</b>			
IB2400	Activator Protein-1 (AP-1)	IB1000	Nuclear Factor (erythroid-derived 2)-like 2 (Nrf2)
IB0900	Nuclear Factor kappa-light-chain enhancer of activated B cells (NFkB)	IB2500	Tumor Protein p53 (p53)
IB1800	Nuclear Factor of Activated T cells (NFAT)		
<b>LIPID &amp; ENERGY METABOLISM</b>			
IB0011	Peroxisome Proliferator-Activated Receptor Alpha (PPARa)	IB0030	Liver X Receptor Beta (LXRb)
IB0012	Peroxisome Proliferator-Activated Receptor Beta (PPARb)	IB0080	Retinoid X Receptor Alpha (RXRa)
IB0010	Peroxisome Proliferator-Activated Receptor Gamma (PPAR $\gamma$ )	IB0110	Thyroid Hormone Receptor Beta (TRb)
<b>BASAL METABOLISM &amp; CENTRAL NERVOUS SYSTEM</b>			
IB0031	Liver X Receptor Alpha (LXRa)	EM00501	Mineralocorticoid Receptor (MR)
IB0220	Retinoic Acid Receptor Alpha (RARa)	IB0810	Retinoic X Receptor Beta (RXRb)
IB0200	Retinoic Acid Receptor Gamma (RAR $\gamma$ )	IB0082	Retinoid Receptor Gamma (RXR $\gamma$ )

## INDIGO's Cell-Based Reporter Assay Kits & Screening Services for Water Quality Monitoring

Actively contribute to creating a safer environment with cell-based luciferase reporter assays specifically developed for use in environmental testing applications. Screen samples for endocrine disrupting chemicals and rapidly and reliably detect potential toxicity from estrogen-, androgen-, and dioxin-like compounds, contaminants of emerging concern, known contaminants, and unknown substances. With INDIGO's environmental testing assays we can fast-track our way to a cleaner future.

## Build a Safer Environment: INDIGO's Certified Bioassays for Water Monitoring

Thanks to their accuracy and ease-of-use, INDIGO's reporter assays are becoming a valuable tool in surface, recycled water, and wastewater monitoring. INDIGO received approval from California Water Boards for the use of its Aryl Hydrocarbon Receptor (AhR) and Estrogen Receptor Alpha (ER $\alpha$ ) bioassays as bioanalytical screening tools for Constituents of Emerging Concern in recycled water. Learn more about the California Water Board's approval on our website!

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