

PRODUCT
SHEET

HIGHLIGHTS

✓ **Inexpensive alternative** to fluorescence detection that delivers **equivalent sensitivity**

✓ Provides visual **colorimetric** readout for lower density microarrays **in minutes**

✓ Works with any biotinylated target

✓ Combines an easy to use reagent kit and small instrument—only 8" x 16" space required

✓ **Intuitive ampliVIEW™ software** enables automated interpretation of user-designed arrays

✓ **High impact** for microarrays based on DNA, proteins, antibodies, peptides, aptamers

INEXPENSIVE DETECTION TECHNOLOGY FOR OLIGO AND PROTEIN MICROARRAYS

The combination of a simple reagent kit and a small benchtop instrument provide a powerful new detection technology for low density (<2500 spots) microarray applications. With an investment about ten times lower than that required for a typical microarray scanner, ampliPHOX provides equivalent analytical sensitivity to fluorescence with a simple colorimetric readout. The instrument requires no onsite training—simple setup instructions and an easy workflow mean you can be using ampliPHOX immediately upon arrival. With its incredibly small footprint, the ampliPHOX Reader and miniature laptop computer are an easy addition to any lab.



The key to ampliPHOX colorimetric detection technology is a light-initiated chemical reaction that forms solid polymer spots on the microarray. Biotinylated targets are first captured onto the microarray, and subsequently labeled

with a streptavidin-coupled initiator. When a proprietary solution is added and light from the ampliPHOX Reader illuminates the array, polymer grows selectively from only locations where the biotinylated targets were captured. The process occurs in just a few minutes, and can be seen with the unaided eye and subsequently imaged with the ampliPHOX Reader.

ampliPHOX has been optimized for use with glass microarray substrates and can be utilized with both nucleic acid and protein-based systems, and in principle can be used to detect any biotin-labeled product.

NO CAPITAL EQUIPMENT REQUIRED

Do you have to travel to a core facility to image your microarray results? Is a fluorescence-based microarray scanner too expensive for your budget? Have you avoided doing microarray-related research because of the high cost? If so, ampliPHOX is a great alternative for your single color microarray detection applications.

Each ampliPHOX Starter Kit is supplied with everything you will need to generate results quickly, and reordering supplies from InDevR is simple with online one-stop shopping.



INTUITIVE, EASY-TO-USE SOFTWARE (Included)

Imaging and interpreting your ampliPHOX colorimetric arrays is simple with InDevR's ampliVIEW™ software that comes pre-installed on the accompanying laptop computer. With an intuitive user interface, arrays can be quickly imaged and subsequently automatically interpreted. The user simply takes a few minutes to supply information about the array layout by naming the targets and specifying their location(s), and the ampliVIEW software automates the image interpretation.

TECHNICAL SPECIFICATIONS

Components	ITEM			
	ampliPHOX Reader (Model 2B)			
	Pre-installed ampliVIEW Software (single user license)			
	Notebook computer with Windows Operating System, USB mouse, etc.			
	Power cable, USB cable			
Related Catalog Items	REQUIRED ITEMS	PART NUMBER(S)	RECOMMENDED ITEMS	PART NUMBER(S)
	Calibration Chips	AP-5006	Wash Bin	MI-4002
	ampliPHOX Reagent Kit (includes line items below)	AP-5005	Wash Rack	MI-4003
	ampliPHY with Enhancer	AP-5003	Microarray Wells	MI-4006
	ampliTAG, Blocking Agent	AP-5001	Rinse Bottle	MI-4004
	ampliTAG Buffer (2x)	AP-5002	Humidity Chamber	MI-4001
	ampliRED	AP-5004		
	Wash Buffers C,D	MI-5005C,D		
Hardware	Excitation source: LED array			
Environment	65-80°F (18-27°C)			
Weight	2 lbs 5 oz			
Dimensions	5.5" W x 5.7" D x 5.8" H			
Power Requirements	12 VDC 1.25 A			
Warranty	One year (materials and workmanship)			

FOR ADDITIONAL INFORMATION PLEASE VISIT OUR WEBSITE: www.InDevR.com