AP-Yellow One Component Microwell Substrate (pNPP)

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Product Description:

AP-Yellow One Component Microwell Substrate (pNPP) with Stabilizing Pellets contains *p*-nitrophenylphosphate (*p*-NPP) and Stabilizing Pellets (BioFX Cat. No. STAB). The substrate is supplied as a one component ready to use solution. Unreacted substrate should be colorless to pale yellow in appearance. When this substrate is reacted with phosphatase, a soluble yellow product is obtained. The reaction can be stopped using AP Stop Reagent (BioFX Cat. No. APSR). AP-Yellow One Component Microwell Substrate (pNPP) with Stabilizing Pellets is not recommended for membrane or immunohistochemical applications that require a precipitating reaction product.

Hazard Identification:

AP-Yellow One Component Microwell Substrate (pNPP) with Stabilizing Pellets does not contain aprotic solvents and is a non-hazardous formulation. Please refer to the MSDS for additional information.

Product Stability, Storage and Specifications:

AP-Yellow One Component Microwell Substrate (pNPP) with Stabilizing Pellets is stable for a minimum of 2 years from the date of manufacture when stored at 2°C - 8°C. Storage is recommended at 2°C - 8°C. The product has performed within its specifications when placed at room temperature (25ºC) for 2 to 3 days. Product performance has been shown to be within specifications following 5 freeze-thaw cycles. This substrate is light sensitive and should be protected from direct sunlight and UV sources.

Product Use:

AP-Yellow One Component Microwell Substrate (pNPP) with Stabilizing Pellets is supplied as a one component ready to use solution. The product should be allowed to equilibrate to room temperature (25°C) prior to use. For microwell applications, 100 µL – 200 µL of substrate solution is added to each well. A soluble yellow reaction product develops which can be read in the range of 405 nm to 420 nm. For best results, sample absorbance values should be monitored and read before absorbance values exceed 2.0 OD units. In endpoint assays, the substrate reaction can be stopped using an equal volume of BioFX AP Stop Reagent (Cat. No. APSR) or 50 µL of 3 N NaOH per 200 µL of substrate. To reduce the intensity of a reaction, it is recommended that the antibodies or conjugates be diluted. Dilution of the substrate is not recommended. The removal of stabilizing pellets is not recommended.

References:

1. Robey, F.A., and M. Robert-Guroff. 2001. AIDS Res. Hum. Retroviruses. 17:533.

For technical assistance please call +49 (0) 761-47979-0