Innova Biosciences
making science easier

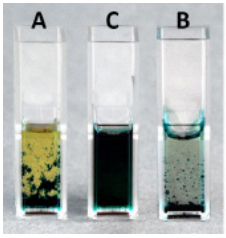
Measuring phosphate-generating enzyme activity

Innova Biosciences offers a range of ultra stable phosphate detection products.

At the heart of this range is **PiColorLock™**, a non-radioactive, superior phosphate detection reagent.

Key features of PiColorLock™:

- A non-radioactive approach for measuring almost any enzyme that releases phosphate from a substrate.
- Special stabilisers suppress non-enzymatic backgrounds with labile substrates.
- Colored complexes are stable for hours.
- Compatible with almost any assay buffer.
- No inhibition of color development by high concentrations of protein.



A = competitor A

B = competitor B

C = PiColorLock™

Figure 1. Competitor assays are beset with several problems including reagent precipitation. The high stability of PiColorLock™ ensures high stability of the colored dye-phosphate complexes (green color- see above.)

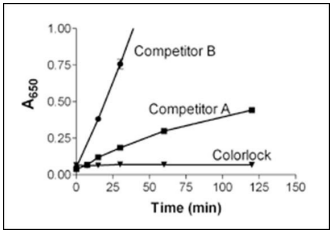


Figure 2. Shows ATP incubated in three detection reagents. A steadily rising background signal is seen with competitor reagents, whereas PiColorLock™ gives baseline readings.

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Phosphate Detection Range

PiColorLock detection reagent

PiColorLock is a phosphate detection reagent for measuring phosphatases, ATPases, GTPases and other enzymes that release inorganic phosphate (Pi). The reagent comes with with an Accelerator, Stabiliser and Pi Standard.

ATPase and GTPase Assay kits

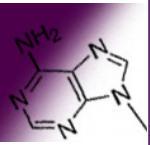
These non-radioactive colorimetric assay kits use a 96 well format. All the necessary reagents are supplied for measuring enzyme activity and are ideal for high throughput drug screening.

PiBindTM resin

Provides a quick and easy way to remove contaminating Pi from buffers. The resin works over a broad range of pH values and is unaffected by many commonly used buffer additives.

NEW!

10mM Lyophilized ATP now available



The lyophilized ATP vials from Innova Biosciences contain ultra high quality ATP to ensure the lowest possible assay background.

Just reconstitute by adding 540µl of water per vial and avoid multiple freeze-thaw cycles to ensure high performance ATP in your assay.

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