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**New High Fidelity Blunt-End PFU-50 Polymerase from Empirical Bioscience Offers
Precise, Rapid Amplification**

(GRAND RAPIDS, MICH)—June 2, 2017— Empirical Bioscience announced today that they have introduced PFU-50, an ultra high fidelity Polymerase for PCR application. In addition to delivering a fidelity that is 50 times greater than Taq polymerases and a rate of accuracy that is 2-fold higher than standard Pfu polymerases, PFU-50 also offers improved processing times, shorter elongation times, and better ligation.

The genetically engineered enzyme invokes the polymerization of nucleotides into duplex DNA in 5'→3' direction but does not possess 5'→3' exonuclease replacement activity. Instead, it offers a 3'→5' exonuclease proofreading capability, significantly increasing the fidelity of DNA compared to Taq polymerase. This extensive exonuclease activity leaves the PCR fragments generated by PFU-50 High Fidelity Polymerase blunt, and without overhangs, for more effective linking of DNA. These characteristics lend themselves well to applications like cloning and next generation sequencing where accuracy, simple ligation, and speed are key.

"PFU-50 is ideal for applications that demand accurate replication of DNA," said Marian Willing, Lead Scientist at Empirical Bioscience. "As well as those featuring long or difficult amplifications," she added.

PFU-50 can be purchased on Empirical Bioscience's Web site in units of 100 to 5,000.

<http://empiricalbioscience.com/store-pfu-50-high-fidelity-polymerase/>. Free samples are also available.

Empirical also offers this product, and all other products in bulk quantities

Empirical Bioscience develops and produces high-grade PCR reagents and enzymes in its ISO 13485 certified facility in Grand Rapids, MI, USA and is a Registered Small Business Company.

For more information about Empirical Bioscience visit: <http://empiricalbioscience.com/> .

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