

January 2021

### *Cell Free Nucleic Acid Extraction*

#### **The cfPure® Cell Free DNA Extraction Kit**

from AMSBIO is a magnetic bead-based DNA extraction kit designed to isolate circulating cell free DNA (cfDNA) from human plasma or serum samples.

#### **Using a quick, simple,**

and automation friendly protocol the kit allows users to quickly extract high quality cfDNA that is ready for use in downstream applications including next-generation sequencing, Bisulfite Sequencing, PCR, qPCR, ddPCR and other demanding applications. This optimized protocol gives highly reproducible results and higher yields relative to other magnetic bead-based methods.



#### **Using silica-coated paramagnetic particles -**

cfPure® kits were developed to ensure efficient recovery of 100bp-500bp DNA fragments in order to maximize recovery of low molecular weight cell-free DNA. Designed for scalability (100  $\mu$ l to 10 mL of serum or plasma), cfPure® kits enable you to use just the number of beads and amount of reagent that you need for your cfDNA extraction.

As well as being simple to use, scalable and easy to automate, cfPure® kits allow you to use less magnetic bead solution if you are purifying small amounts of plasma – saving you money. Since cfDNA is typically found at very low concentrations and in a fragmented state, very efficient DNA capture, as provided by cfPure® Cell Free DNA Extraction Kits, is vital to provide sensitive and reliable results.



**For further information**

please visit <https://www.amsbio.com/cfpure-cell-free-dna-extraction-kit/> or contact AMSBIO on +44-1235-828200 / +1-617-945-5033 / [info@amsbio.com](mailto:info@amsbio.com).

**AMS Biotechnology**

Founded in 1987, AMS Biotechnology (AMSBIO) is recognized today as a leading transatlantic company contributing to the acceleration of discovery through the provision of cutting-edge life science technology, products and services for research and development in the medical, nutrition, cosmetics and energy industries. AMSBIO has in-depth expertise in extracellular matrices to provide elegant solutions for studying cell motility, migration, invasion and proliferation. This expertise in cell culture and the ECM allows AMSBIO to partner with clients in tailoring cell systems to enhance organoid and spheroid screening outcomes using a variety of 3D culture systems, including organ-on-a-chip microfluidics. For drug discovery research, AMSBIO offers assays, recombinant proteins and cell lines. Drawing upon a huge and comprehensive biorepository, AMSBIO is widely recognised as a leading provider of high-quality tissue specimens (including custom procurement) from both human and animal tissues. The company provides unique clinical grade products for stem cell and cell therapy applications-these include high quality solutions for viral delivery (lentivirus, adenovirus and adeno-associated virus) in addition to GMP cryopreservation technology.

Image caption: Circulating cell free DNA.

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