



Purigen Transforms Oncology Sample Preparation with Novel RNA Purification Kit for Challenging Clinical FFPE Specimens

New Ionic® FFPE to Pure RNA Kit features simple, automated workflow for higher yields of pure RNA, including mRNA and miRNA, with less than five minutes of hands-on time per sample

Pleasanton, Calif. – Aug. 18, 2020 – [Purigen Biosystems, Inc.](#), a leading provider of next-generation technologies for extracting and purifying nucleic acids from biological samples, today announced the launch of the [Ionic® FFPE to Pure RNA Kit](#). In one hour with minimal hands-on time, scientists are able to purify and concentrate higher yields of RNA, including messenger RNA (mRNA) and microRNA (miRNA), from precious formalin-fixed paraffin-embedded (FFPE) tissue specimens. Purigen will present performance data showcasing how the Ionic FFPE to Pure RNA Kit can be used to evaluate gene and miRNA expression in FFPE samples during an [interactive webinar](#) on Wednesday, Aug. 19, 2020, at 1 pm ET.

Currently, the vast majority of clinical samples used in oncology research are stored as FFPE tissues, which often contain degraded or fragmented nucleic acids. Labor-intensive workflows are required to purify nucleic acids from these samples prior to molecular analysis. In contrast to traditional column-based methods, the Ionic FFPE to Pure RNA Kit simplifies and accelerates this process, enabling researchers and clinicians to extract both mRNA and miRNA in a single automated workflow. The resulting RNA is pure, abundant, and ready for analysis by any downstream technique such as next-generation sequencing (NGS) or PCR for the rapid discovery of genes that may be predictive of a disease outcome or drug response, or identification of known gene expression profiles.

“There is a pressing biomedical need to generate high-quality information from the wealth of FFPE samples available in biobanks and other sample collections. The Ionic FFPE to Pure RNA Kit will enable scientists to maximize the amount of actionable information extracted from these precious but challenging clinical samples,” said Barney Saunders, PhD, CEO of Purigen Biosystems. “Access to higher yields of high-quality mRNA and miRNA from a single workflow that requires minimal hands-on time can accelerate all of the research projects dependent on FFPE samples.”

The Ionic FFPE to Pure RNA Kit utilizes the company’s core isotachopheresis (ITP) technology and runs on the Ionic Purification System, a compact benchtop instrument that enables the automated extraction of nucleic acids with increased yields and improved purity from a wide range of sample types. Biological samples are gently lysed and then loaded into the Ionic Fluidic Chip. The Ionic System then applies an electric field to the chip, and nucleic acids are isolated in their natural, native form using ITP technology. The nucleic acids are not denatured or dehydrated, or bound and stripped from fixed surfaces. The process minimizes fragmentation and eliminates any bead or buffer contamination.

The Ionic FFPE to Pure RNA Kit consists of six chips and a reagent set with all necessary enzymes and buffers to perform RNA extraction from as many as 48 FFPE scrolls or slides in 60 minutes. The kit is available now through Purigen’s direct sales channels. For more information, please visit: [Get Pure RNA from FFPE](#).

Cambridge Healthtech Institute Webinar

Purigen will present data and showcase its new Ionic FFPE to Pure RNA Kit during an interactive webinar hosted by Cambridge Healthtech Institute. Scientists will discuss molecular analyses of RNA and DNA purified from FFPE using the Ionic Purification Instrument.

[Get More DNA, and now RNA, from FFPE Tissue with Half the Effort - Purigen Biosystems Ionic® Purification System](#)

Presenter: Lewis Marshall, PhD, Director of Microfluidics Engineering at Purigen Biosystems

Date: Wednesday, Aug. 19, 2020

Time: 1:00 pm EDT

Registration: [Purigen CHI Webinar](#)

About Purigen Biosystems

Purigen Biosystems is redefining nucleic acid sample preparation with an innovative platform based on the highly efficient isotachopheresis technology invented by Juan Santiago, PhD, and his team at Stanford University. Purigen's automated benchtop instrumentation and accompanying microfluidic chip purify nucleic acid samples from a wide variety of sources, including minute or otherwise challenging cancer samples. The purified nucleic acids are then immediately compatible with a wide range of downstream detection methods, including next-generation sequencing, PCR, and other genomic tests. For more information, visit www.purigenbio.com.

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