



## PerkinElmer's New Paddy Rice Analysis Technology Unites Image and Pressure Testing

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### **PaddyCheck™ PC 6800 platform increases analysis throughput and accuracy, supporting standardized quality control for rice classification**

**WHAT:** [PerkinElmer, Inc.](#), a global leader committed to innovating for a healthier world, today launched the [PaddyCheck™ PC 6800](#), a rice quality testing platform that speeds sample throughput, increases accuracy and provides standardization of results for more consistent classification.

Bringing together imaging and pressure technologies into one instrument and run, this automated, user-friendly technology delivers accurate results in five to ten minutes around key quality markers such as breakage and head rice yield (HRY). The new solution also eliminates the need for the traditional, labor-intensive step of paddy kernel husking and polishing prior to testing.

Part of PerkinElmer's extensive, advanced food analysis portfolio – which includes quality and safety solutions for grain, dairy, produce, meat and oils – the PaddyCheck platform is now available in China, with other markets to follow. The solution recently received an AACCI Method - AACCI 61-10.01

**HOW:** The PaddyCheck solution, part of PerkinElmer's Perten® product line, includes a comprehensive analysis system that requires no specialized training to operate. It consists of three sensors that are simultaneously served kernels via a rotary sample tray which adjusts for paddy rice of different varieties such as brown, indica and japonica.

The three sensors include: a polarization camera that looks through each kernel to determine transparency; a visible camera that measures morphological parameters such as kernel length, width, and color; and a pressure sensor that applies a 17N force to determine thickness and hardness, uncovering any fissures or potential breakage issues.

Results are then displayed on an intuitive, menu-driven touchscreen and stored for future reference. Additional data and statistical analysis can be conducted with PerkinElmer's Singulator Plus™ software, exclusively created for the PaddyCheck platform, that allows individual kernel images, kernel force curves and more to be viewed.

Further, the compact and portable design of the PaddyCheck platform enables in-field testing, with a battery pack supporting three hours of run time and eight hours of standby life.

**WHY:** "Rice is a key staple in people's diets around the world and helping to ensure the quality of this mega-grain is important for the food industry and consumers," said Greg Sears, vice president and general manager, Food and Organic Mass Spectrometry, PerkinElmer. "With the PaddyCheck platform, research institutes, rice traders and farmers can perform fast, objective and standardized analysis to help satisfy the increasing research and planting demands of the ever-growing global food chain.

**MORE:** Learn more about this new offering [here](#).

### **About PerkinElmer**

PerkinElmer enables scientists, researchers and clinicians to address their most critical challenges across science and healthcare. With a mission focused on innovating for a healthier world, we deliver unique solutions to serve the diagnostics, life sciences, food and applied markets. We strategically partner with customers to enable earlier and more accurate insights supported by deep market knowledge and technical expertise. Our dedicated team of about 13,000 employees worldwide is passionate about helping customers work to create healthier families, improve the quality of life, and sustain the wellbeing and longevity of people globally. The Company reported revenue of approximately \$2.8 billion in 2018, serves customers in more than 180 countries, and is a component of the S&P 500 index. Additional information is available through 1-877-PKI-NYSE, or at [www.perkinelmer.com](http://www.perkinelmer.com).

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