



## ***Colorcon and TruTag Technologies Enter into Development Agreement Targeting Authentication of Medicines***

HARLEYSVILLE, PA and EMERYVILLE, CA – August 6, 2019 — Colorcon and TruTag Technologies, Inc. today announced execution of a development agreement to enable on-dose verification technology for tablets by combining TruTag’s silica-based microtag authentication technology with Colorcon’s industry-leading expertise in film coating systems, modified release technologies and specialty excipients.

The collaboration will see TruTag’s edible “optical barcodes” incorporated into existing Colorcon coatings, with the microtags verified by either a smart phone application or a proprietary reader. Each SiO<sub>2</sub> particle is encoded with an optical signature that is manufactured into the microtags without the use of additional additives or markers.

The benefits of this innovation include the ability to instantly and unequivocally authenticate products when suspect events occur and specifically addresses the problems of counterfeiting, product diversion, returns monitoring, quality control and product recalls in pharmaceuticals and nutraceuticals.

“On-dose authentication technology represents the next generation in pharmaceutical supply-chain security by providing a powerful tool for tracking product from plant to patient,” said Kelly Boyer, General Manager, Film Coatings of Colorcon. “By seamlessly enabling authentication, these digitized coatings confirm the quality and origin of medicines thereby safeguarding both patients and brands. Colorcon continues to advance technologies and services to meet industry challenges with innovative solutions.”

“Colorcon brings a shared vision for bringing innovation to the pharmaceutical industry, said Michael Bartholomeusz, CEO of TruTag Technologies. “They are market leaders in the film-coating space, and they have the caliber and reach to make intelligent coatings a new industry standard. We are thrilled to be working with them.”

### **About Colorcon**

Colorcon is a world leader in the development, supply and technical support of specialty excipients: formulated film coating systems, modified release technologies, and functional excipients for the pharmaceutical industry. Our best-in-class products and technologies are complemented by our extensive application data and value-added services to support all phases of solid oral dose design, development and manufacture. Our focus on market issues and

technology development has earned Colorcon an international reputation as a pharmaceutical supplier of choice. That reputation is based on superior product quality, unparalleled technical support, extensive regulatory assistance and reliable supply from multiple locations. Colorcon currently has 11 manufacturing facilities (including seven film coating sites), 21 technical service laboratories globally and more than 1200 employees exclusively dedicated to its customer base.

### **About TruTag Technologies**

TruTag Technologies, Inc. is a leading security and technology solution provider serving businesses and governments around the world. TruTag has the most advanced precision-fabricated, cGMP nano-porous silica manufacturing operation in the world for a variety of applications and security solutions, including product identity for food, medicine, secure labels and documents. Learn more at [www.TruTags.com](http://www.TruTags.com).

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