

News Release 39 – 16th April 2007

RxSpec® 700Z for Counterfeit Drug Detection



Worldwide, 10% or more of all drugs are counterfeit, costing billion in lost revenue. Can anyone afford not to be completely sure?

Can you tell the real capsule from the fake?

While the extent of pharmaceutical counterfeiting varies among different regions in the world, there is consensus among regulatory bodies that the problem is a dangerous threat to the safety of consumers. Additionally, as counterfeiting techniques become more advanced, fakes are more easily passing undetected into the supply chain, causing industry to experience the financial impact. Counterfeiting, fraud, and theft within the pharmaceutical industry supply chain range from conservative estimates of \$30 billion to more than \$50 billion in annual losses to corporations, according to market studies by organizations such as IMS Health and the FDA. In 2003 the FDA established the Counterfeit Drug Task Force as a new initiative to combat this growing problem and more aggressively protect consumers from counterfeit drugs. The new initiative includes exploring the use of modern technologies and other measures that will make it more difficult for counterfeit drugs to get mixed up with, or deliberately substituted for, safe and effective drugs.

In 2004, to address this issue, Analytical Spectral Devices (ASD are represented in the UK by Analytik Ltd) released its RxSpec® near-infrared (NIR) technology for drug verification in high-volume Central Fill and Mail Order pharmacy operations. The RxSpec® system uses patented technology to directly examine a drug, while in the dispensing vial, and confirm that the correct drug and dosage are being dispensed by comparing the sample to a database of more than 700 NDCs.

Nearly every pharmaceutical product has a unique "spectral fingerprint" determined by its molecular composition, and NIR spectroscopy is an ideal vehicle for verifying authenticity. RxSpec® technology has successfully checked more than 2.5 million prescriptions since introduction, and has proven effective in distinguishing between pharmaceuticals that look virtually identical, but which have, in fact, different formulations or dosages.



ASD recently introduced the fully portable RxSpec® 700Z concept system which can easily, and cost effectively, remedy the escalating problem of fakes in the supply chain, and hopefully eradicate the unnecessary injuries and loss of life caused by harmful counterfeit drugs reaching consumers. The RxSpec® 700Z is destined to be a useful tool for pharmaceutical companies, Customs and Border Control agencies, and anybody in the drug distribution chain with concern for the efficacy of drugs dispensed to patients. The portable system provides the ability to test questionable drugs when and where needed.

ASD's patented RxSpec® NIR technology provides the only thorough means to rapidly, and non-destructively determine if the product is indeed genuine, in a cost-effective and convenient way.

- ***True portability, AC/DC operation***
- ***Real-time results***
- ***Non-destructive***
- ***No sample preparation or waste***
- ***Simple operation***

Pharmaceutical verification testing, when you need it, where you need it!

For details on the RxSpec® 700Z and the complete range of portable VIS-NIR spectroscopy solutions from Analytical Spectral Devices please contact:

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