i-QCRx™ Provides Solutions in Patient Safety & Diversion of Controlled Drugs

B&W Tek has pioneered a proprietary solution by using the most advanced spectroscopic technology that addresses challenges of identifying and quantifying medications in solutions in difficult-to-monitor and critical environments. It provides near real-time and precise identification and quantification of cytotoxins, narcotics, antibiotics and other active pharmaceutical compounds in buffer solution. It is ideal for use in hospital pharmacies, cancer treatment centers, compound pharmacies, CROs and pharmaceutical companies.

The Right Intravenous Medication at the Right Dose

- On-site and near real-time results
- Correct medication (Qualitative)
- Correct dosage (Quantitative)
- Easy to use
- No-user interpretation
- Minimal reagents and disposables

SOLUTIONS & APPLICATIONS

Patient Safety:

Improves patient safety by reducing adverse drug events (ADEs)

Provides validation of medications at the time of compounding

Provides assurance that medications have been prepared accurately

Reduces errors in medication selection, the manufacturing of admixtures, inadvertent substitution, or the mislabeling of the medication, container or package

Diversion of Controlled Medication and Substance:

Mitigates narcotic diversion, validating the unused returned narcotics prior to disposal

Comply with regulations and guidelines for accounting of controlled substances

Helps identify problem areas before they become a crisis

Counterfeit Medication:

Diminishes the risk of counterfeiting at any point in the supply chain – from manufacturer to the wholesaler to the distributor to the hospital to the patient

Provides assurance that the medication is indeed an authentic product from the manufacturing facility

Near real-time medication validation provides the ability to spot counterfeits

Regulatory Compliance

Provides validation of a facility's sterile preparation and documentation of its quality process to meet the USP <797> recommendations and other regulatory guidelines.

FEATURES

Tested and validated for over 80 cytotoxins, antibiotics, narcotics, antibodies and other pharmaceuticals in various buffers (NaCl, Glucose, etc.)

Custom library extension by fully automated calibration

Near real time result (30-90 seconds)

Built-in normalization function, repeatability and carry-over tests to validate system stability

Embedded bar code reader

Export of real-time results to prescription or LIMS software

Fully complies with 21 CFR Part 11 with IQ/OQ/PQ/DQ provided as needed at the time of installation

THE SYSTEM

A single application software performs all data acquisition, analysis, and management of the work lists. The system can be connected to the local network and results exported to customer's validation application or data management software such as prescription software or a LIMS.

INSTALLATION

The system is installed by a B&W Tek expert together with a comprehensive training for smoothly integrating the system into a routine operation. As an operational service, IQ/OQ/PQ/DQ may also be provided per the specific requirement.

CALIBRATION

The system includes an identification library for over 40 widely used cytotoxins, antibodies and antibiotics. The quantification calibrations included are instrument specific and can easily be adjusted to fit the new system. As each drug requires identification and quantification calibrations to determine the identity and concentration of samples accurately, an expandable standard library and quantification models are included with the system. New identification and quantification calibrations can be established for new drugs and can be created automatically within 20-30 min using the auto sampler.

DAILY USE

A maximum of 1 ml sample is needed for identification and quantification of the drug, extracted from the drug volume directly into a standard sealed vial and then injected into the measurement flow cell with the auto sampler.

The operator enters the intended drug prior to the analysis, and starts the spectral data acquisition with a simple mouse click.

The software compares the acquired data with the calibration spectra of the intended drug, and determines if the sample is the correct drug, including the buffer (glucose or sodium chloride), and the drug concentration.

SPECIFICATIONS

Size: L 37 x W 66 x H 73 cm without computer

Weight: 24 kg without computer

Power Supply: 100-230 VAC, 50-60 Hz

Laser Safety Classification: Class 1

B&W TEK
Your Spectroscopy Partner

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