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(57) Abstract :
 BLOCKCHAIN BASED PRODUCT AUTHENTICITY DETERMINATION FRAMEWORK Abstract A blockchain-based system for determining the authenticity of medicine packets, incorporating an authentication module tailored to validate the origin and contents of each packet. The module interfaces with a verification module, ensuring the seal's integrity and cross-referencing barcodes or QR codes with associated label details. Additionally, a testing module conducts chemical, physical, and microbiological assessments of each medicine batch. The system also features a data-sharing module, relaying confirmed medicine batch information to stakeholders including manufacturers, distributors, and retailers. Should counterfeit medicines be identified, a reporting module proactively notifies the relevant authorities, ensuring rapid intervention and consumer safety.

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