Record Nr. UNINA9910145261903321 Analysis of drug impurities [[electronic resource] /] / edited by Richard **Titolo** J. Smith and Michael L. Webb Pubbl/distr/stampa Oxford;; Ames, Iowa,: Blackwell, 2007 **ISBN** 1-281-32024-2 9786611320249 0-470-98874-6 0-470-99422-3 Descrizione fisica 1 online resource (290 p.) Collana Analytical chemistry series Altri autori (Persone) SmithRichard J WebbMichael L Disciplina 615.1901 615/.1901 Soggetti Drugs - Analysis Materia medica Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Analysis of Drug Impurities; Contents; Preface; List of contributors; 1 Organic impurities in drug substance: origin, control, and measurement; 1.1 Introduction; 1.2 Origin of impurities; 1.2.1 Process impurities; 1.2.2 Degradation impurities; 1.2.3 Contamination impurities; 1.2.4 Other impurities; 1.3 Control of drug substance impurities; 1.3.1 Control of residual solvents; 1.3.2 Control of synthetic impurities; 1.3.3 Control of impurities in biological and botanical products; 1.3.4 Purification processes; 1.3.5 Control of impurities from packaging: 1.3.6 Control of contamination impurities 1.3.7 Control of degradants on stability 1.4 Measurement of drug substance impurities; 1.4.1 HPLC; 1.4.2 GC; 1.4.3 CE; 1.4.4 General considerations; 1.5 Conclusions; Disclaimer; References; 2 Organic impurities in drug products: origin, control and measurement; 2.1 Introduction; 2.2 Analytical methodology; 2.3 Drug-excipient compatibility experimental design; 2.4 Degradation mechanisms; 2.5 Excipients' role in drug product destabilisation; 2.6 Processing as a

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Sommario/riassunto

A key component of the overall quality of a pharmaceutical is control of impurities, as their presence, even in small amounts, may affect drug safety and efficacy. The identification and quantification of impurities to acceptable standards presents a significant challenge to the analytical chemist. Analytical science is developing rapidly and provides increasing opportunity to identify the structure, and therefore the origin and safety implications of these impurities, and the challenges of their measurement drives the development of modern quantitative methods. Written for both practic