UCLouvain

wfarm2117

2024

Analyse et contrôle de qualité des médicaments

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| Teacher(s) | Muccioli Giulio (coordinator) ;Spillier Quentin ; | | | | |
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| Language : | French > English-friendly | | | | |
| Place of the course | Bruxelles Woluwe | | | | |
| Main themes | The main methods and norms used for purity and quality control of drugs (qualitative and quantitative analysis of impurities, assays,') will be explained | | | | |
| Learning outcomes | At the end of this learning unit, the student is able to: Give to the student the appropriate knowledge: 1. to use efficiently reference documents (e.g. pharmacopoeias) for quality control of a medicine or its constituents, including understand the methods described in such documents 2. to allow the student to choose the most adequate analytical method to solve a given problem in drug analysis (mixture of active molecules, related substances,') | | | | |
| Evaluation methods | Evaluation by a written exam (unless exception) and exercises | | | | |
| Teaching methods | Teaching method: in part, theoretical teaching except exceptional sanitary measures, as well as group work of students and reverse classes. | | | | |
| Content | Drugs quality control Pharmacopoeia: general aspects Purity of drugs and main degradation pathways Identification methods (infra red spectroscopy, nuclear magnetic resonance) General identification reactions Separation methods (liquid-liquid and solid-liquid extractions, liquid, supercritical and gaz chromatographies, electrophoresis). Quantification methods and validation of analytical methods Introduction to mass spectrometry (MS), coupling of MS with separation methods Tests General monographs Discussion of monographs Examples of the main routes of chemical and physical degradation of a drug Control of commercialised medicines | | | | |
| Inline resources | used supports are descibed on Moodle | | | | |
| Other infos | The basic principles of analytical methods are not addressed in this EU. These concepts are widely discussed in the BAC EU (e.g. WFARM1243, WFARM1312, WFARM1219). Students are strongly encouraged to review the course materials if they find weaknesses in their bachelor's degree training. | | | | |
| Faculty or entity in charge | FARM | | | | |

| Programmes containing this learning unit (UE) | | | | | | |
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| Program title | Acronym | Credits | Prerequisite | Learning outcomes | | |
| Master [120] in Pharmacy | FARM2M | 3 | | Q. | | |