

3 credits

30.0 h

Q1

Teacher(s)	Leclercq Joëlle coordinator ;Muccioli Giulio ;Servais Anne-Catherine (compensates Leclercq Joëlle) ;
Language :	French
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
Aims	<p>- Give to the student the appropriate knowledge:</p> <p>1</p> <ol style="list-style-type: none"> <li>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</li> <li>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,')</li> </ol> <p>-----</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	Evaluation by a written exam and exercises
Teaching methods	Teaching method: theoretical teaching
Content	<ol style="list-style-type: none"> <li>1. Drugs quality control ' Pharmacopoeia : general aspects</li> <li>2. Purity of drugs and main degradation pathways</li> <li>3. Identification methods (infra red spectroscopy, nuclear magnetic resonance)</li> <li>4. General identification reactions</li> <li>5. Separation methods (liquid-liquid and solid-liquid extractions, liquid, supercritical and gaz chromatographies, electrophoresis).</li> <li>6. Quantification methods and validation of analytical methods</li> <li>7. Introduction to mass spectrometry (MS), coupling of MS with separation methods</li> <li>8. Tests</li> <li>9. General monographs</li> <li>10. Discussion of monographs</li> <li>11. Examples of the main routes of chemical and physical degradation of a drug</li> </ol>
Bibliography	• onglet spécifique sur moodle avec supports de cours obligatoires
Faculty or entity in charge	FARM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Pharmacy	FARM2M	3		