

CORNET Call for Proposals: International Collective Research

--- Project idea ---

Subject:	Phytocosmetic Kits for Active Ingredient Check – PhytoKIT
Coordinator:	Prof. Dr. Oguz Bayraktar
Other applicant(s):	Associate Prof. Tamer Karayıldırım Assistant Prof. Yücel Başpınar
Sector:	<input type="checkbox"/> Materials <input type="checkbox"/> Process Engineering, Energy Technology and Environment <input type="checkbox"/> Business Management and Organisation <input type="checkbox"/> Construction and Production <input checked="" type="checkbox"/> Chemistry, Textile, Food, Health and Medical <input type="checkbox"/> Measurement and Information
Target group:	End users and producers of herbal drugs and cosmetic finished goods.
Proposal summary:	<p>In this project we aim to produce a kit which will be able to determine active ingredient development, qualitative and quantitative verification of kit functionality used in herbal drugs and finished products.</p> <p>Herbal drugs are whole or fragmented, unprocessed parts of plants, algae, fungi and lichens. Usually they are in dry form. The herbal drug preparation is obtained by treating herbal drugs such as extraction, distillation, squeezing, fractionation, purification, condensation or fermentation. Herbal cosmetics (phytocosmetics) contain only one or more of the active ingredients; or one or more herbal drug preparations, or a combination of one or more herbal drugs and herbal drug preparations.</p> <p>Standardization is the adjustment of a product obtained from the herbal drug by mixing with the excipients, the herbal drug or the product over a substance or a substance or group of substances whose activity is known. The quality of herbal cosmetics directly affects its effectiveness and reliability.</p> <p>There are many methods for quality control of herbal cosmetics and the first step is “quality control of the herbal drug preparation used”. From this point of view, it is aimed to develop low cost and easily applicable test kits in order to determine the active substance content in the introduction quality control of herbal drug preparations used in phytocosmetic production.</p>
Advantages for trade	The determination kits to be developed will reduce the input quality control costs of herbal preparation suppliers, minimize the risk of using wrong raw materials,

and industry:	and increase product standardization and quality by guaranteeing the raw material-related effectiveness of the products produced and sold.
Dissemination concepts:	<p>Project results will be communicated via the PhytoKIT website (to be constructed), via seminars and conferences.</p> <p>Concepts are</p> <ul style="list-style-type: none"> • The process value chain • Applied technology • Economic analysis
Profile of additional partners:	<ul style="list-style-type: none"> • Associations • Researchers • SMEs that are interested to participate
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