

HPTLC : A USEFUL SUPPORT FOR RESEARCH AND DEVELOPMENT OF ACTIVE INGREDIENTS FROM SELECTED PLANTS

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The aim of the Laboratoires Actifs, Biologie et Cosmétique (LABC), belonging to the Laboratoires LVMH R&D, is to develop active ingredients from plants for cosmetic applications.

Our research is based on the broad diversity of plants. The selection of these plants to study is carried out through a specific approach and phytochemical investigations. Because most of the time only a few bibliographic data is available, phytochemical studies, especially by HPTLC, are performed in the LABC.

HPTLC is a major step in our investigations of setting up the 'phytochemical identity card' of extracts by a *phytochemical screening*.

This one consists in exploring different extracts of dried parts of plants, with a large combination of elutive systems and specific staining reagents of phytochemical compounds to identify.

By this way, we can observe different '**phytochemical identity card**' depending on parts and plants studied.

So, HPTLC is a hardcore technique to obtain a rapid and global overview of the main components present in the parts of the plants which are of interest.

This method enables us to guide research and development of natural active cosmetic ingredients and the determination of their 'phytochemical and biological markers'.

