

TLC (Thin Layer Chromatography) qualitative determination of dyestuffs on cosmetic products

Test aim: The method allows the qualitative determination of some dyestuffs on cosmetic products through Thin Layer liquid Chromatography (TLC).

Procedure: the sample is extracted in an extractive solution formed by water/alcohol solutions in different ratios. In case of complex matrices, a polar solvent is employed to extract the fatty material present in the sample. It is often necessary to use specific reagents for each single dyestuff, in order to increase its solubility in the extractive phase. The reference material undergoes the same extractive treatment as the samples. Sample, reference and strengthened sample are placed on a TLC layer. The layer is eluted with the most suitable phases for the separation of the molecules in solution.

Instruments: TLC

Method: internal