

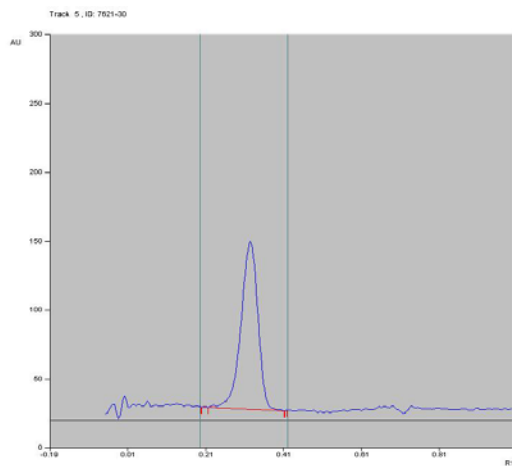
# DEGRADATION PRODUCT DOSAGE IN DERMATOLOGICAL PRODUCTS - HPTLC METHOD -

By  
Caroline PETITTI  
Laboratoire BAYER Santé Familiale  
Gaillard - France  
caroline.petitti@bayerhealthcare .com

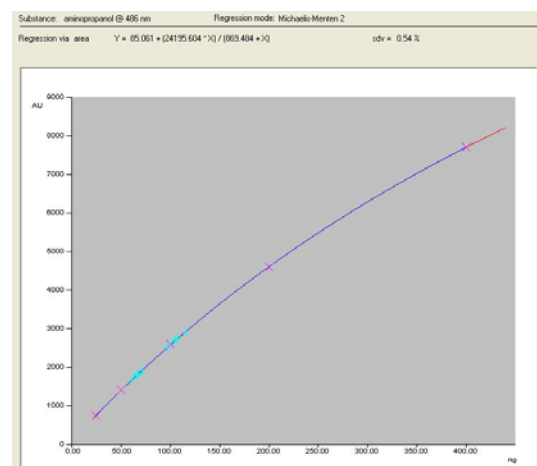
Aminopropanol is depanthenol (or pro-vitamine B5) degradation product. The Dexpanthenol is one of the active principles of our dermatological products (cream and ointment).

We have a HPTLC method to quantify (with the Camag Scanner III) this degradation product in different dermatological products.

## Chromatogram example (sample) :



## Calibration curve example :



We have validated this method (LOD/LOQ determination, Linearity / Exactitude, Specificity, Intermediate precision).

The method has a particularity: the mobile phase contains the reagent (ninhydrine).

We compared our method with a classical method using, after the elution, the Camag immersion device.

We compared also our method with an existing HPLC method, which was a very long method, with internal standard and fluorimetric detection.

At last we can speak about a few problems which occurred.