



## **CAMAG** overview

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## **CAMAG's HPTLC Software**

#### **winCATS**

incorporates all steps of HPTLC, but old architecture

Plate oriented approach



#### visionCATS

our next generation software

Plate and Sample oriented approach



Sample Application

Development

Derivatization

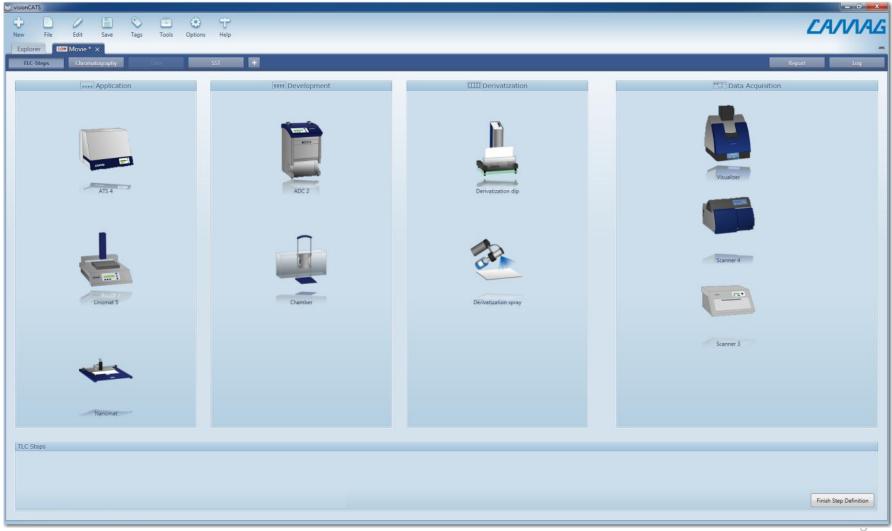
Detection Evaluation

Documentation

Report

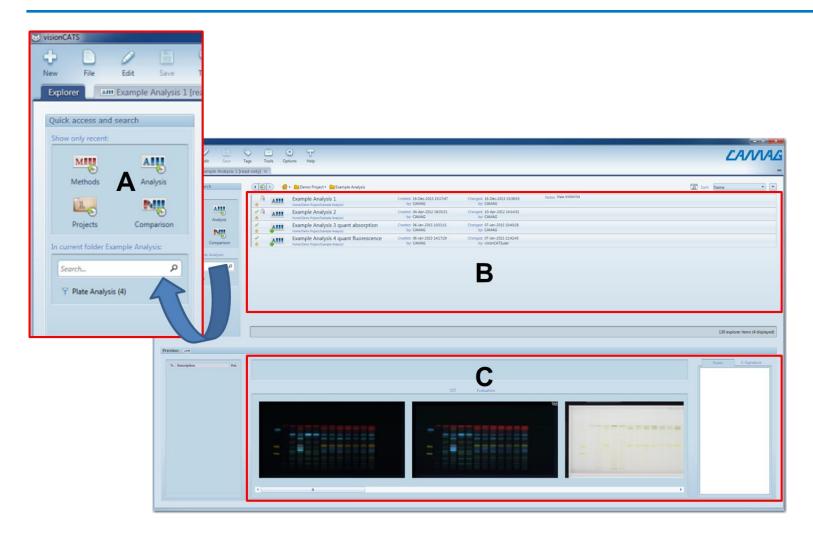


## visionCATS – Guided Analysis



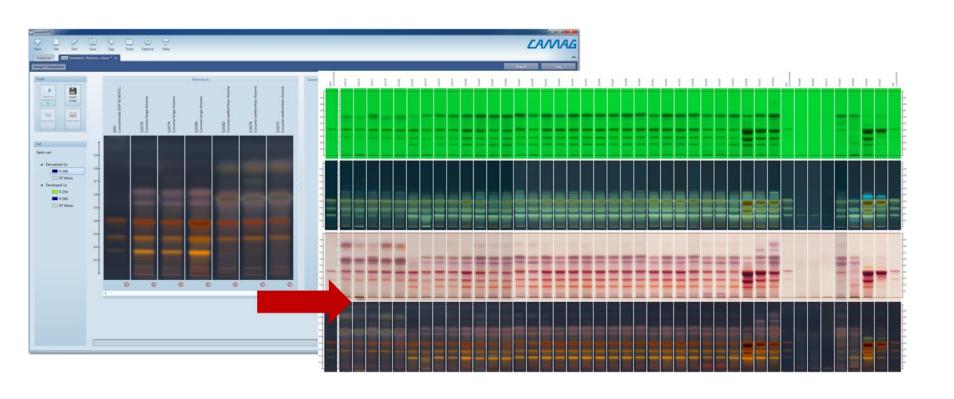


## Sample-Oriented, File Explorer





# **Image Comparison – Fully Integrated**



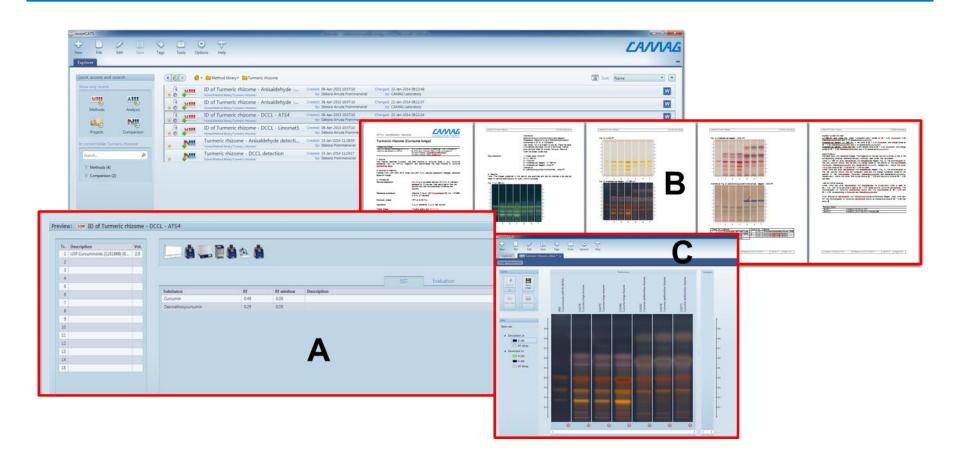


## **SWL** and **MWL**





## **Method Library**





#### **Functions and Features**

#### Instruments:

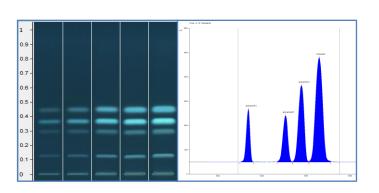
- Supported instruments: ATS 4, Linomat 5, ADC 2, Visualizer, TLC Scanner 3 and 4
- ➤ Multiple applications with ATS 4 & Linomat 5
- ➤ Multiple development with ADC 2
- Multiple image capturing with the Visualizer
- Multiple scanning steps with the TLC Scanner
- Up to five different evaluation steps

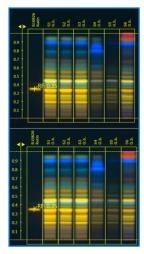


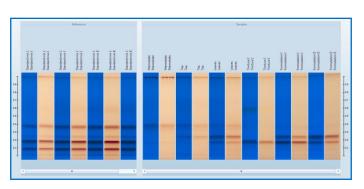
## Sales & Marketing

#### Case Studies:

- 1. HPTLC fingerprint of Ginkgo biloba flavonoids
- 2. Quantification of ginkgolides A, B, and C and bilobalide in *Ginkgo biloba* by HPTLC
- 3. Quantitative determination of steviol glycosides
- 4. Determination of monoacylglycerides in biodiesel









# CAMAGlash



Prof. Dr. Gertrud Horlock 3LU Glessen, Germany

The adage "A picture is worth a thougand words" ideally refers to the image-giving planar chromatographic method for the evaluation of samples. In this case study, an HPTLC method for analysis of steviol glycosides with Its single steps was visualized in a short video recorded at the 3LU Glessen, Germany, Only sugarcontaining analytes, and so the staviol glycosides, were detected in paperated raw extracts, Stevile formulations, or sugar-free food products using a selective derivatization with the 5-naphthol reagent. Coupling to mass spectrometry was employed for confirmation of the identity. The workflow of the method can be conveyed more effective as a vigualized experiment than as a ours description. Enloy the video and agree with the updated adage. "A video is worth a thousand

#### News & Events

#### EXPORABMA 2015

18-17 April 2018, Marine City, Marine Together with the least Sub-Suber 1908.0M CAPAGE and Gifts of the EXPORTAGES 2018 National Calle place of the World Trade Cardenie Manies City.

#### 63rd ASMS Conference on Mass Spectrometry and Allied Topics

21 Play - 6 June 2018, St. Leuis, USA CAMAS seriots of the 63-0 ASMS Conference on Mass Spectrowerby and Allied Topics Olef will falls place of the America's Carter in \$5, Louis

# CAMAGlash

#### Case Study: Quantitative determination of steviol glycosides



A current topic of public discussion is obesity that is also seen in developing countries. The daily consumption of carbohydrates, particularly sugar has been correlated with this problem. Low or sero-calorie sweeteners have therefore become increasingly

For centuries South American natives have used the plant Stevia rebaudians to aweeten food and traditional medicines. The isolated diterpene awesteners, so-called steviol glycosides, are about 200 -300 times awester than augar. Such purified Stevils extracts have been added to beverages and food or approved for its use in countries like Japan and China already for decades.

Positive safety coinions of the US Food and Drug Administration (FDA), European Food Safety Authority (SFSA) or the Joint FAD/WHO Expert Committee on Food Additives (JECFA) on the cafe use of purified Stevia leaf extracts as food additive and aweetener in food and beverages have increasingly isunched products containing steviol plycosides. In December 2011, steviol glycosides have been permitted as sweetener 5 950 in the 5U. Expressed as steviol equivalents, a daily intake of up to 4 mg/kg. body weight was specified as acceptable.

CAMAS has released a rase study that demonstrates a replicharacterization of Stavia formulations. Stavia raw extracts, or super-free food products by a selective derivatiostion of the steviol glycosides. Additionally, it shows the concept of confirming the identity of the different staviol plycosides by coupling with mass spectrometry. Relevant mass spectra of steviol glycosides were recorded in the positive ion mode in few minutes.

Click here to view the entire case study.



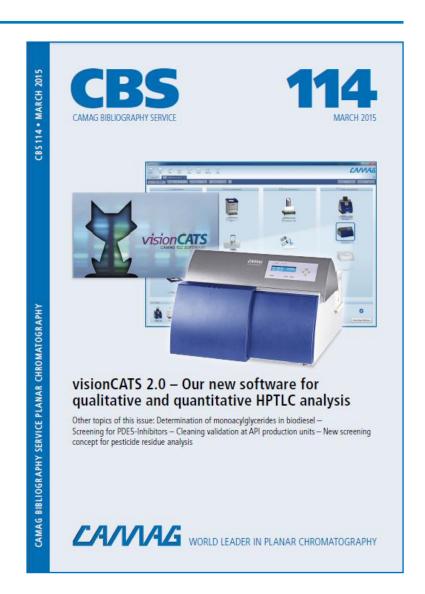
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## **CAMAG CBS**

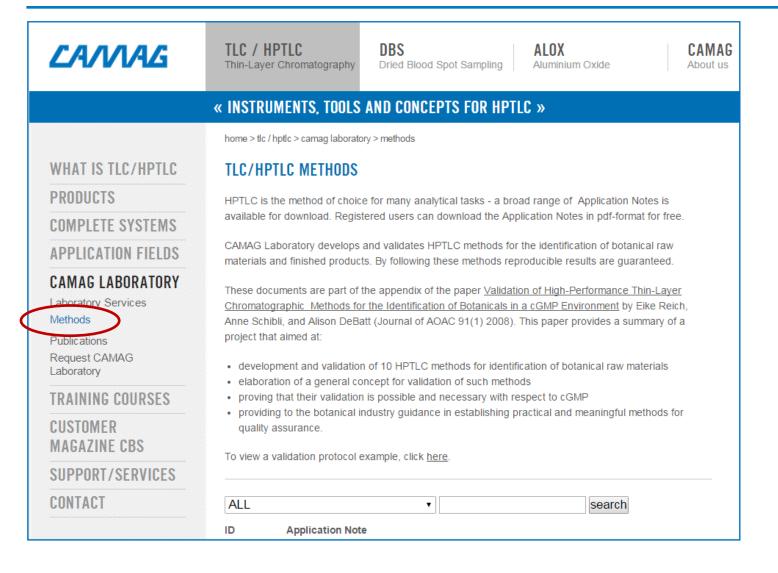
- CAMAG Customer Magazin: Application examples from different fields
- Cumulative CAMAG Bibliography
   Service: A collection of abstracts of
   publications in the field of Thin-Layer
   Chromatography





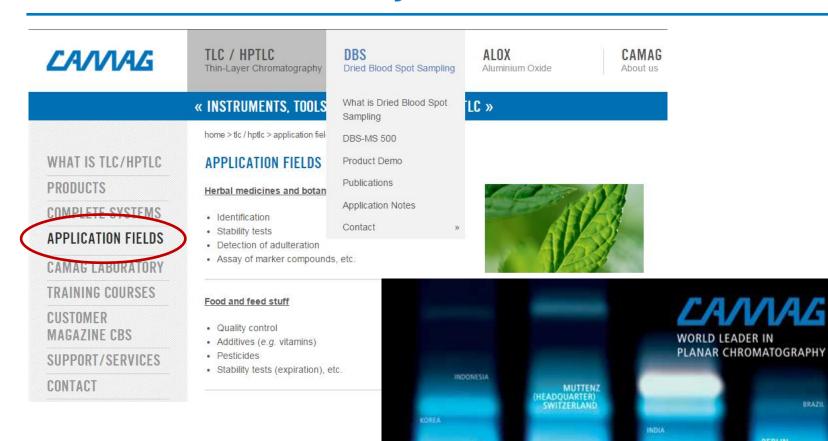


## **Application Notes**





## We love to entertain you!



WILMINGTON NC

BERLIN GERMANY



# Thank you for your attention!

