

CAMAG®

Automatic Developing Chamber 2 (ADC 2)

The ADC 2 offers convenience, safety, and reproducibility for isocratic developments in full compliance with Ph.Eur. Chapter 2.8.25 and USP Chapter <203>.



The ADC 2 is a device for reproducible plate development. It performs the development step fully automated and independent of environmental effects. The activity and pre-conditioning of the layer, chamber saturation, developing distance and final drying can be preset and automatically monitored by the ADC 2. Two modes of operation are possible: stand-alone with input of parameters via keypad, or remote operation from *visionCATS* with process monitoring, documentation of operating parameters, and reporting. With *visionCATS* the ADC 2 can be IQ/OQ qualified and used in a cGMP environment. Operated with the mentioned software, the ADC 2 supports compliance with 21 CFR Part 11.

Key Features

- Fully automated development
- Development in 20 x 10 cm Twin Trough Chamber
- HPTLC plates (20 x 10 cm)
- Operation in stand-alone mode or software-controlled
- Fully traceable operation
- Option "Humidity Control" allows reproducible chromatography

WORLD LEADER IN
PLANAR CHROMATOGRAPHY

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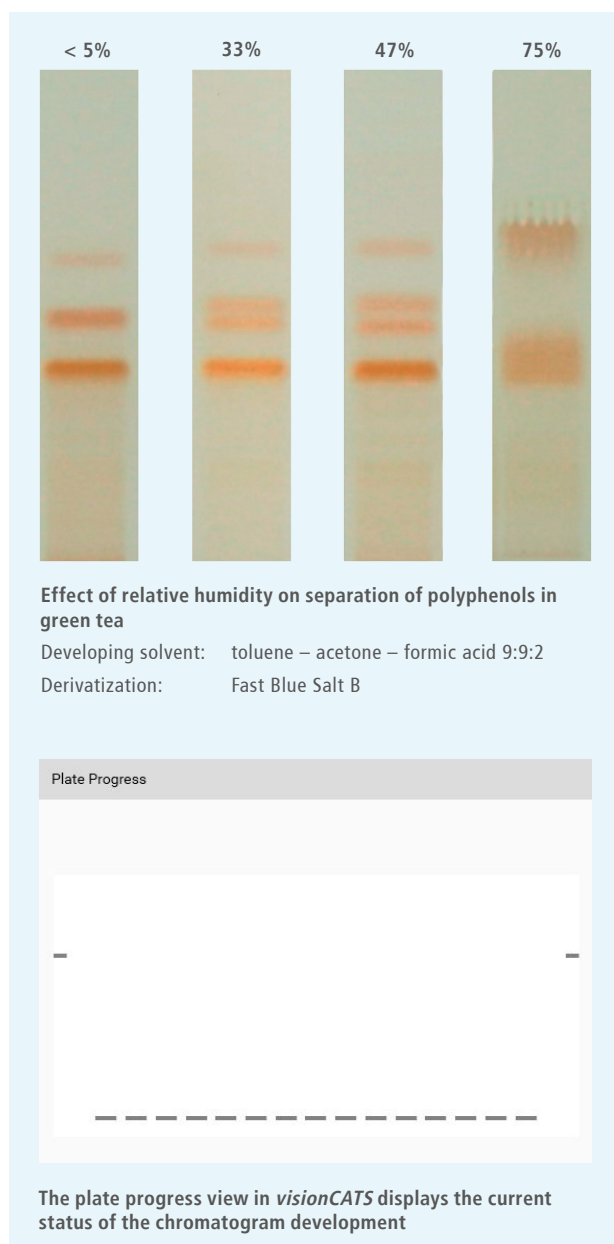
REPRODUCIBLE DEVELOPMENT UNDER STANDARDIZED CONDITIONS

High-Performance Thin-Layer Chromatography is an open system and therefore easily influenced by environmental effects and operator skills. This is particularly true if the activity of the layer, chamber saturation, or pre-conditioning of the layer is important for the specific separation.

Reproducible results can only be achieved, if all such influencing factors are kept constant. In routine analysis these parameters should be standardized.

The Automatic Developing Chamber 2 is universally applicable and gives results of unsurpassed reproducibility, and designed to automate all manual operations necessary during chromatogram development:

1. Prior to chromatography the activity of the layer can be adjusted to a selected level with the option "Humidity Control".
2. Chamber saturation is established at the same time (time controlled).
3. If required, the plate can then be lowered into the chamber without making contact with the developing solvent, effecting a time controlled pre-conditioning of the layer with the vapor phase of the developing solvent.
4. Finally chromatography is started by lowering the plate into the solvent.
5. During chromatography the position of the solvent front is monitored.
6. As soon as the solvent front has reached a pre-defined position, the plate is removed from the solvent and dried under flow-optimized conditions.
7. When software-controlled with *visionCATS*, all chromatographic parameters are recorded in compliance with cGMP/cGLP as part of the analysis and can be printed at any time.



Ordering Information

022.8350 CAMAG® Automatic Developing Chamber 2 (ADC 2)

for fully automatic development of TLC/HPTLC plates of 20 x 10 and 10 x 10 cm, including CAMAG Twin Trough Chamber for ADC 2 (022.5261), for 20 x 10 cm plates, 100–240 V and Option Humidity Control for CAMAG ADC 2 (022.8360) provides for control of layer activity by controlling the relative humidity in the developing chamber. This is done by means of salt solutions (salt solution not included).

028.0000 CAMAG® HPTLC Software *visionCATS* Basic Version

including access and control of all instruments - one server, one client, Instrument Diagnostics (xQ), analytical reports, access to Method Library. Needs to be purchased separately and is not included in any Ultimate Package.

Before installing *visionCATS*, please visit www.camag.com/visionCATS for recommended system requirements and further information.

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