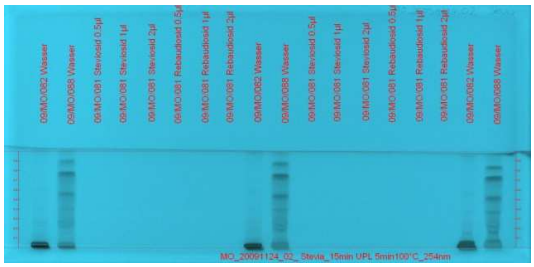
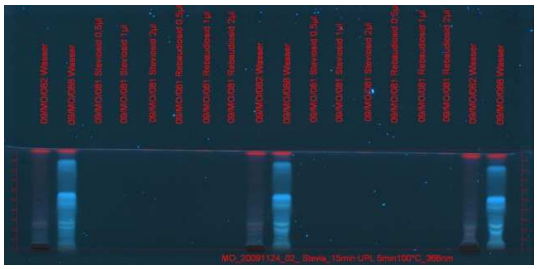
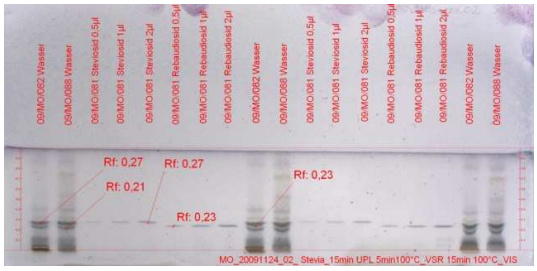
Detection of Stevioside and Rebaudioside in Stevia extract on HPTLC Silica gel 60 F_{254}s

Chromatographic Conditions

Plate:	HPTLC Silica gel 60 F_{254}s 20x10 cm
Article number:	1.15696.0001
Mobile Phase (v/v):	Ethylacetat / Formic acid / Glacial acid / Water 100:11:11:27 +0.1 % TFA
Migration distance:	5 cm
Chamber:	Normal chamber without chamber saturation
Detection:	UV 254 nm, UV 366 nm, derivatisated with Vanillin-sulfuric acid-reagent and Anisaldehyde-sulfuric acid-reagent detected with white light
Sample preparation:	2 g plant material extracted for 1 h at 60°C under shaking with 50 ml solvent. Filtration of crude extract with an 0.45 µm syringe filter. Application by CAMAG ATS4 6 mm bandwise.







Chromatographic Data

Track No.	Compounds	Concentration (mg/ml)	Solvent	Application volume µl	hRF
1,9,17	Stevia extract 1	~0.04	Water	2	
2,10,18	Stevia extract 2	~0.04	Water	2	
3, 11	Stevioside standard	1	Water	0.5	27
4, 12	Stevioside standard	1	Water	1	27
5, 13	Stevioside standard	1	Water	2	27
6, 14	Rebaudioside standard	1	Water	0.5	23
7, 15	Rebaudioside standard	1	Water	1	23
8, 16	Rebaudioside standard	1	Water	2	23