

Densitometric analysis

This document contains:

- (1) Images used for the quantification of the analyte by densitometric analysis, and all results generated by this analysis.
- (2) An image of the chromatographic plate used in the analytical curve and the graph with the analytical curve.

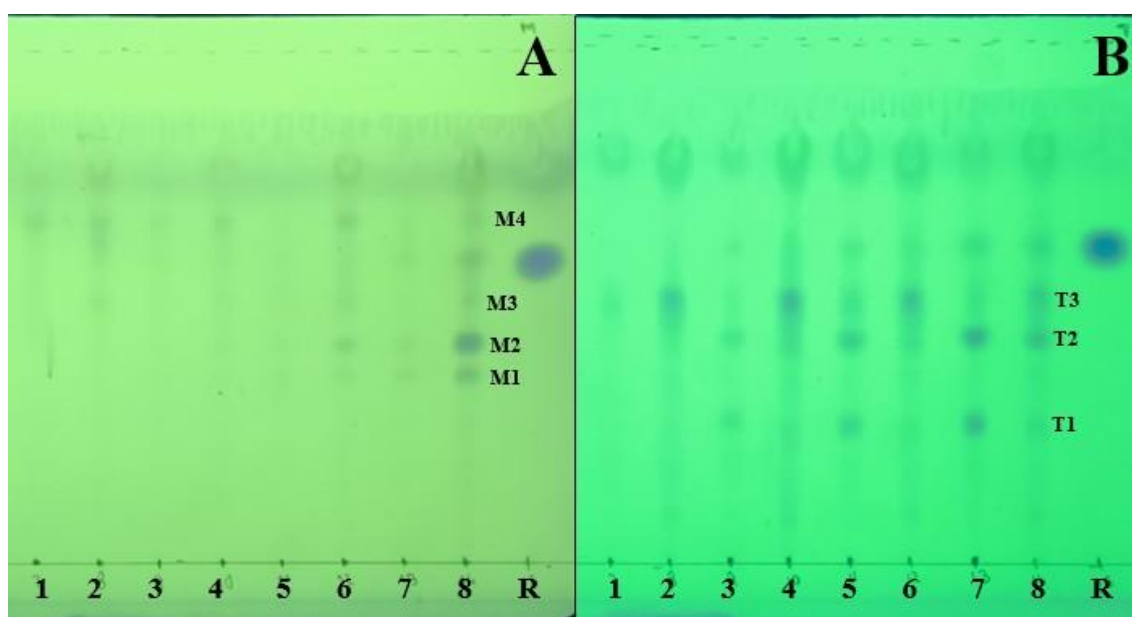


Figure. Chromatographic profiles by CCD of the methanolic extracts of the roots (1, 3, 5, and 7 – in order: control, 250, 500, and 750 mg kg⁻¹) and the aerial parts (stems and leaves) (2, 4, 6, and 8 – same order) of *O. basilicum* (basil) (A) and *L. esculentum* (tomato) (B) specimens. R: Reference Substance (metronidazole). Stationary phase: silica gel. Mobile phase: n-Butanol: Acetic acid: Water (4:1:1 – v/v/v). Application volume: 5 µL; Concentration: undetermined. Detection: UV light at 254 nm.

Table. Densitometric analysis of methanolic extracts from the roots and aerial parts (stems + leaves) of basil specimens.

Cpd	MRC	MAC	MR250	MA250	MR500	MA500	MR750	MA750
M1	-	-	-	-	-	1213.870	1059.284	3764.518
M2	-	-	-	319.092	657.385	2212.669	1426.184	8705.468
M3	-	789.385	-	419.092	-	925.456	-	945.941
Metronidazole	-	-	-	-	-	-	1768.648	5074.075

M4	2104.690	1589.598	603.971	1168.749	-	2173.548	118.192	811.941
-----------	----------	----------	---------	----------	---	----------	---------	---------

R: roots; A: aerial parts - stems plus leaves; the values in the table are the absolute areas obtained from the densitograms of the chromatographic profiles of the basil specimen extracts (Plate A of Figure).

Table. Densitometric analysis of methanolic extracts from the roots and aerial parts (stems + leaves) of tomato specimens.

Cpd	TRC	TAC	TR250	TA250	TR500	TA500	TR750	TA750
T1	-	-	2390.246	836.426	3637.560	1004.355	2750.539	599.698
T2	-	-	2249.397	-	3770.468	-	4416.075	2151.225
T3	1877.497	3495.974	368.335	2578.660	2202.861	2280.589	1081.870	1808.104
Metronidazole	-	-	1218.698	1091.548	2070.669	1338.184	3597.489	2433.154

R: roots; A: aerial parts - stems plus leaves; the values in the table are the absolute areas obtained from the densitograms of the chromatographic profiles of the basil specimen extracts (Plate A of Figure).



Figure. Chromatographic profiles by CCD of the metronidazole methanolic solution analytical curve (1, 0.5, 0.25, 0.12, 0.06 mg/mL) . Stationary phase: silica gel. Mobile phase: n-Butanol: Acetic acid: Water (4:1:1 – v/v/v). Application volume: 5 μ L; Concentration: undetermined. Detection: UV light at 254 nm.

Analytical curve data:

n	Mass applied (ng)	Luminous density
1	10.00	22828.13
2	5.00	12420.12
3	2.50	7606.79
4	1.25	5006.648
5	0.63	3003.991

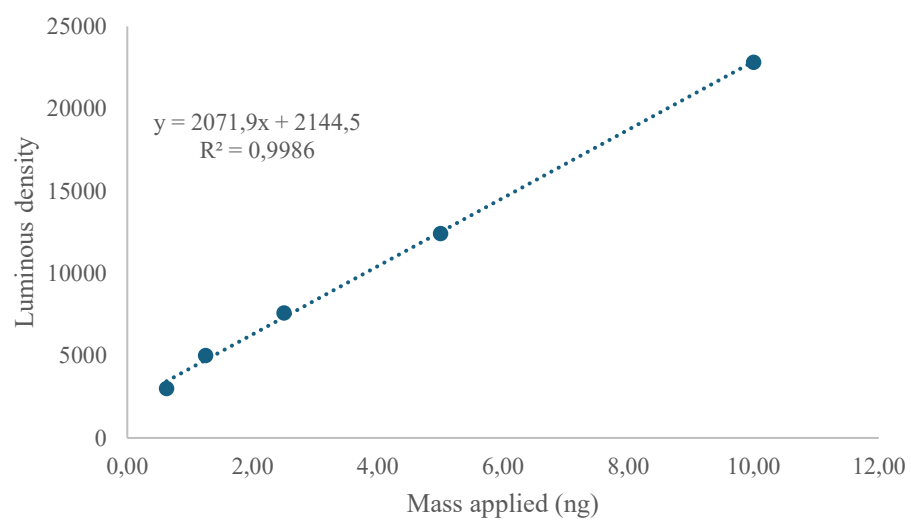


Figure. Analytical curve (Luminous density vs. Mass applied) for the quantification of metronidazole concentration.