

Supplementary Materials

Two Biotechnological Approaches to the Preparative Synthesis of Natural Dihydrocoumarin

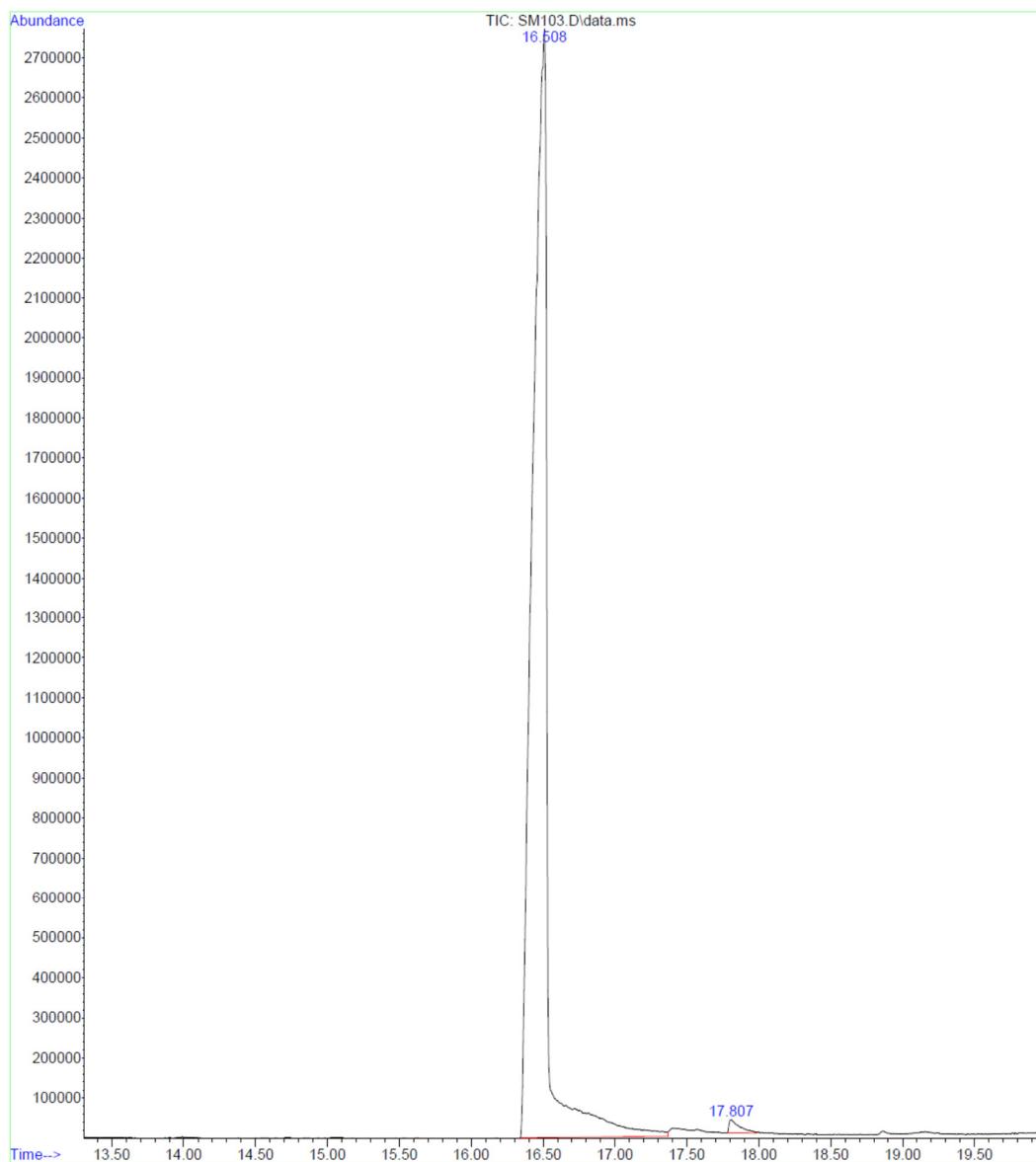
Stefano Serra *, Stefano Marzorati and Mattia Valentino

Istituto di Scienze e Tecnologie Chimiche, Consiglio Nazionale delle Ricerche (CNR), Via Mancinelli 7,
20131 Milano, Italy
Tel.: +39-02-2399 3076
E-Mail: stefano.serra@cnr.it or stefano.serra@polimi.it

Table of contents:

1. Figure S1: GC-MS analysis of the dihydrocoumarin obtained using *Kluyveromyces marxianus* (preparative procedure, paragraph 3.6)
2. Figure S2: GC-MS analysis of the dihydrocoumarin obtained using OYE2 and NADP⁺/glucose/GDH (preparative procedure, paragraph 3.7)
3. Figure S3: GC-MS (EI) spectrum of dihydrocoumarin
4. Figure S4: GC-MS (EI) spectrum of coumarin

1.



Signal : TIC: SM103.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	16.508	2316	2346	2495	M	2779028	203204275	100.00%	99.168%
2	17.807	2568	2573	2604	M	32902	1704702	0.84%	0.832%

Figure S1. GC-MS analysis of the dihydrocoumarin obtained using *Kluyveromyces marxianus* (preparative procedure). Peak with t_R 17.81 = coumarin, peak with t_R 16.51 = dihydrocoumarin.

2.

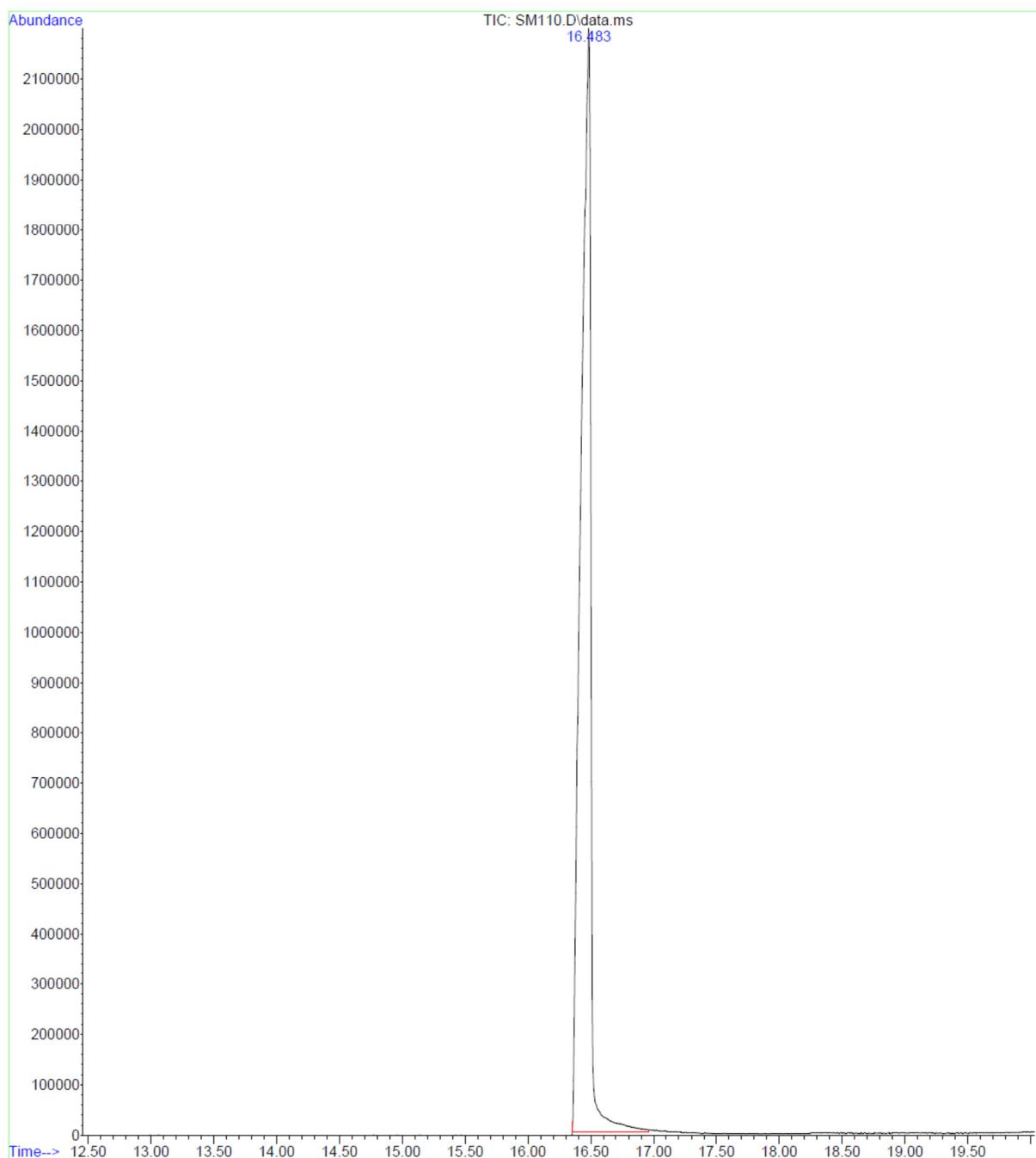


Figure S2. GC-MS analysis of the dihydrocoumarin obtained using OYE2 and NADP⁺/glucose/GDH (preparative procedure). Peak with t_R 16.48 = dihydrocoumarin

3.

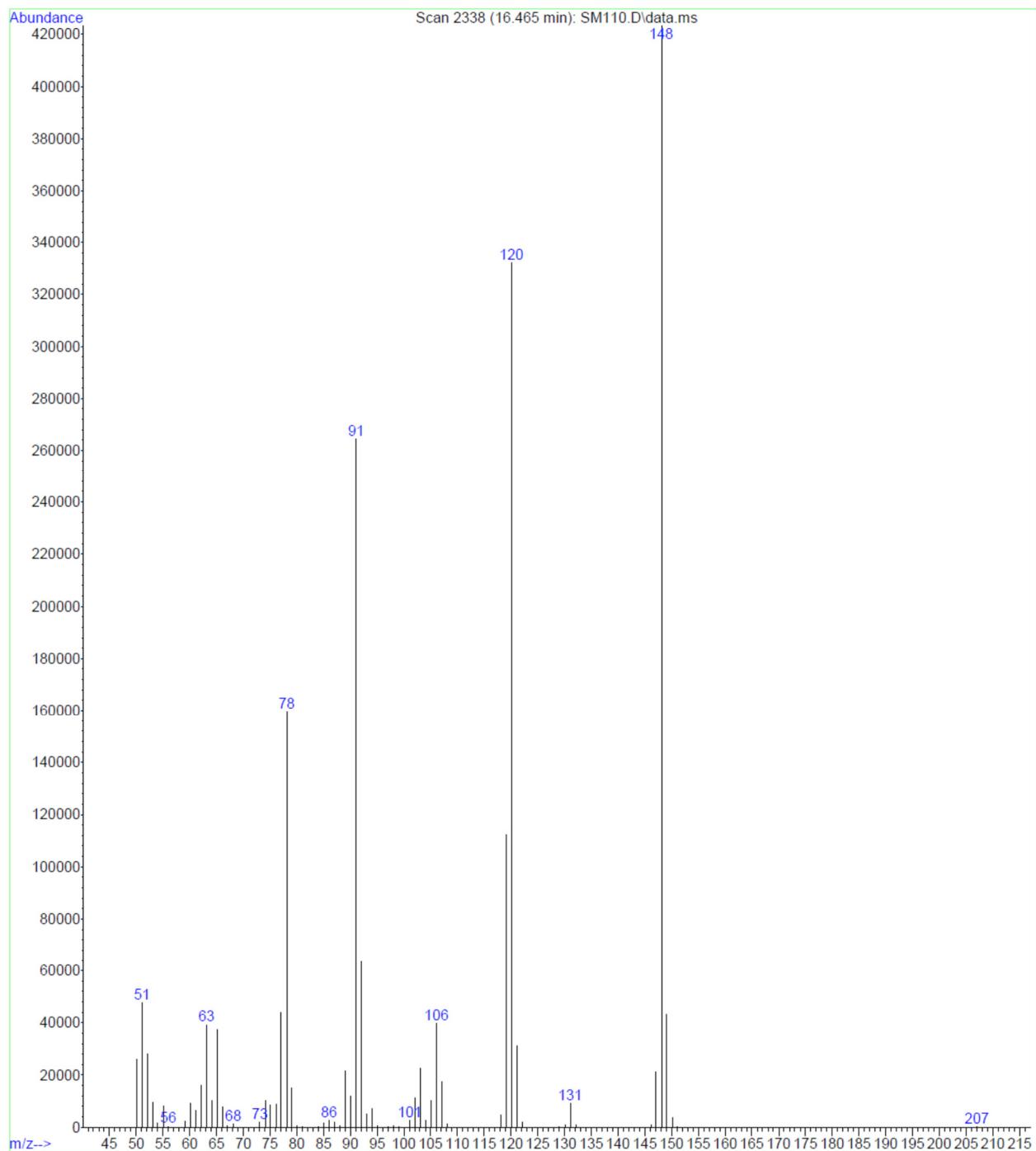


Figure S3. GC-MS (EI) spectrum of dihydrocoumarin.

4.

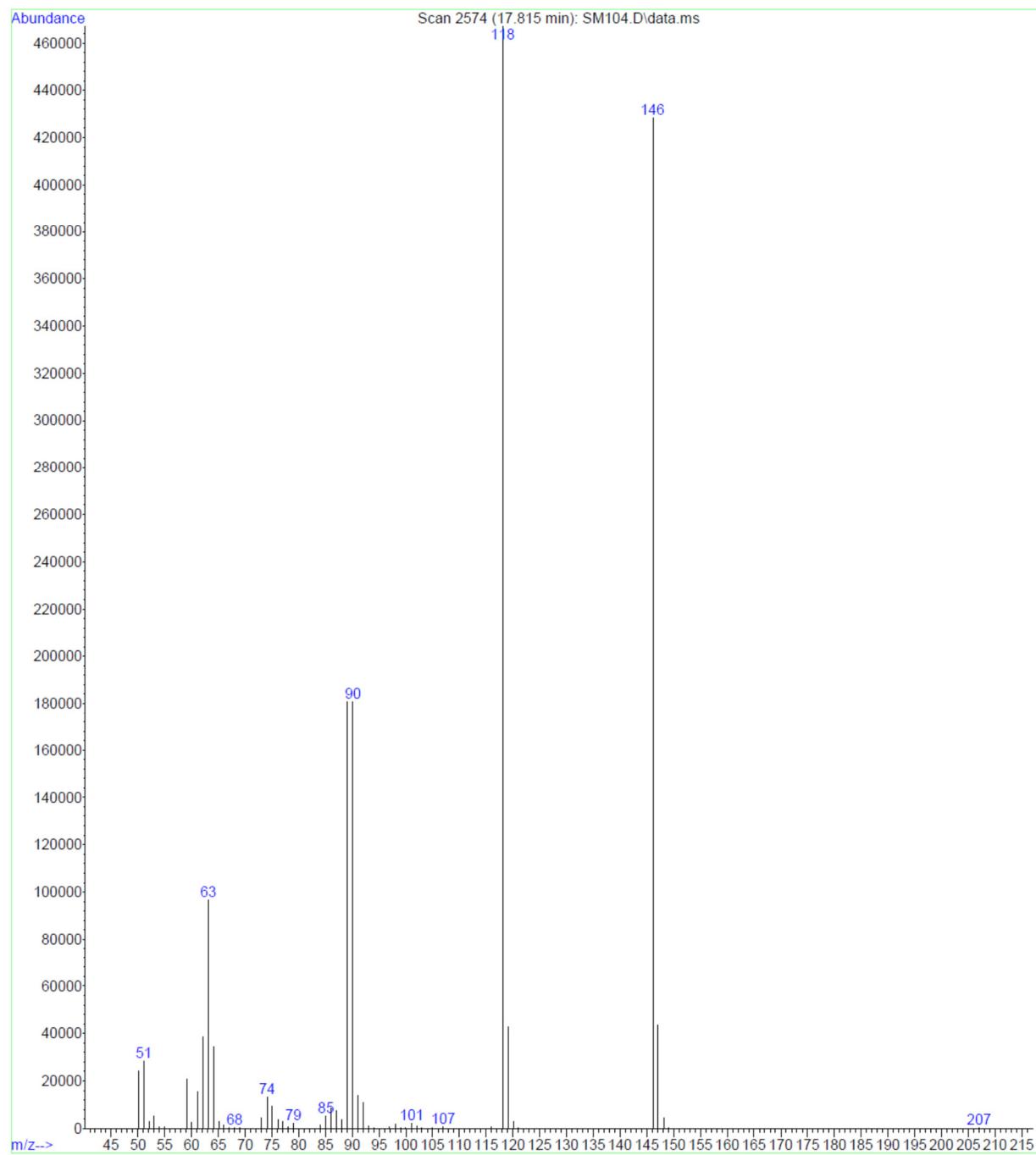


Figure S4. GC-MS (EI) spectrum of coumarin.