

175°		200°		225°	
<i>Time (min)</i>	<i>THC (%)</i>	<i>Time (min)</i>	<i>THC (%)</i>	<i>Time (min)</i>	<i>THC (%)</i>
1.5	1.4	1.0	1.3	1.5	1.7
3.0	1.7	1.5	1.7	3.0	1.4
5.0	1.7	3.0	1.7	5.0	1.4
15	1.7	5.0	1.7		
		15	1.5		
		30	1.2		
		60	1.0		

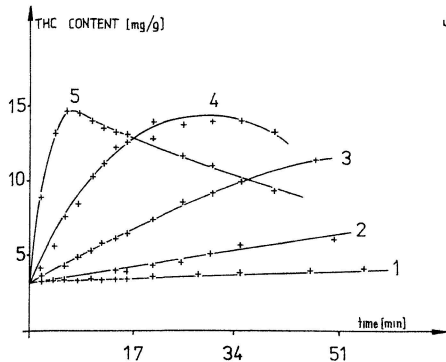


Fig. 3. Effect of heating time and temperature on the THC content of an *n*-hexane marihuana extract after heating on the glass surface in an open reactor. Curves: 1 = 80°C; 2 = 94°C; 3 = 106°C; 4 = 122°C; 5 = 145°C.

HPLC Data from Decarboxylation of THCA Herbal Material

Temperature	Time (hours)	THC/THC + THCA	THC peak area/0.1 g of herb
105° C.	Zero	0.17	992.9
	0.5	0.87	5749
	1.0	0.93	5273
	2.0	0.98	7734
	4.0	0.99	7068
120° C.	0.5	0.97	7189
	1.0	0.99	6391
	2.0	0.99	6500
	4.0	1.00	5870
140° C.	0.5	1.00	6724
	1.0	1.00	5981
	2.0	1.00	5361
	4.0	1.00	4787

TABLE 5

GC Data from Decarboxylation of THC Herbal Material

Temperature	Time (hours)	CBN/THC (%)
105° C.	Zero	2.4
	0.5	3.5
	1.0	4.2
	2.0	3.7
	4.0	5.6
120°	0.5	3.2
	1.0	4.1
	2.0	6.7
	4.0	11.3
140° C.	0.5	5.7
	1.0	13.0
	2.0	17.5
US 7,344,736	4.0	23.8