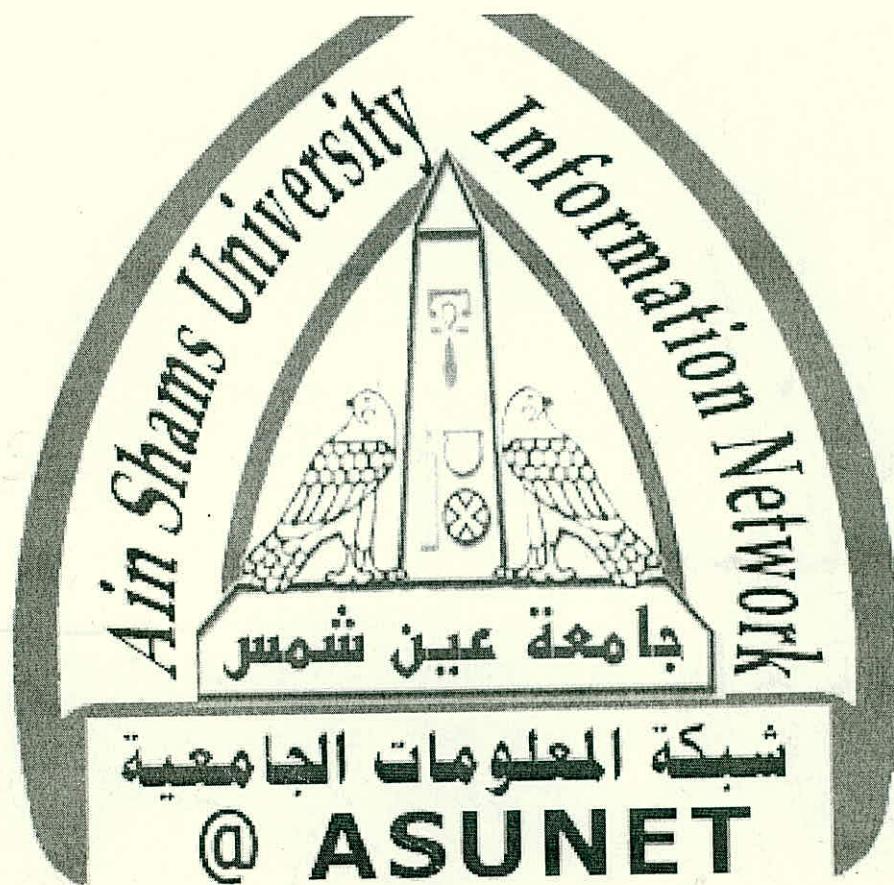




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بعض الوثائق الأصلية تالفة

PHYTOCHEMICAL STUDIES ON ***Diplotaxis acris* (Forssk.)**

By

NAWAL HEDAIA MOHAMED HASSAN

B.Sc. of Sci. (Biochemistry and Chemistry), Ain Shams Univ., 1991.

A thesis submitted in partial fulfillment

of

the requirements for the degree of

MASTER OF SCIENCE

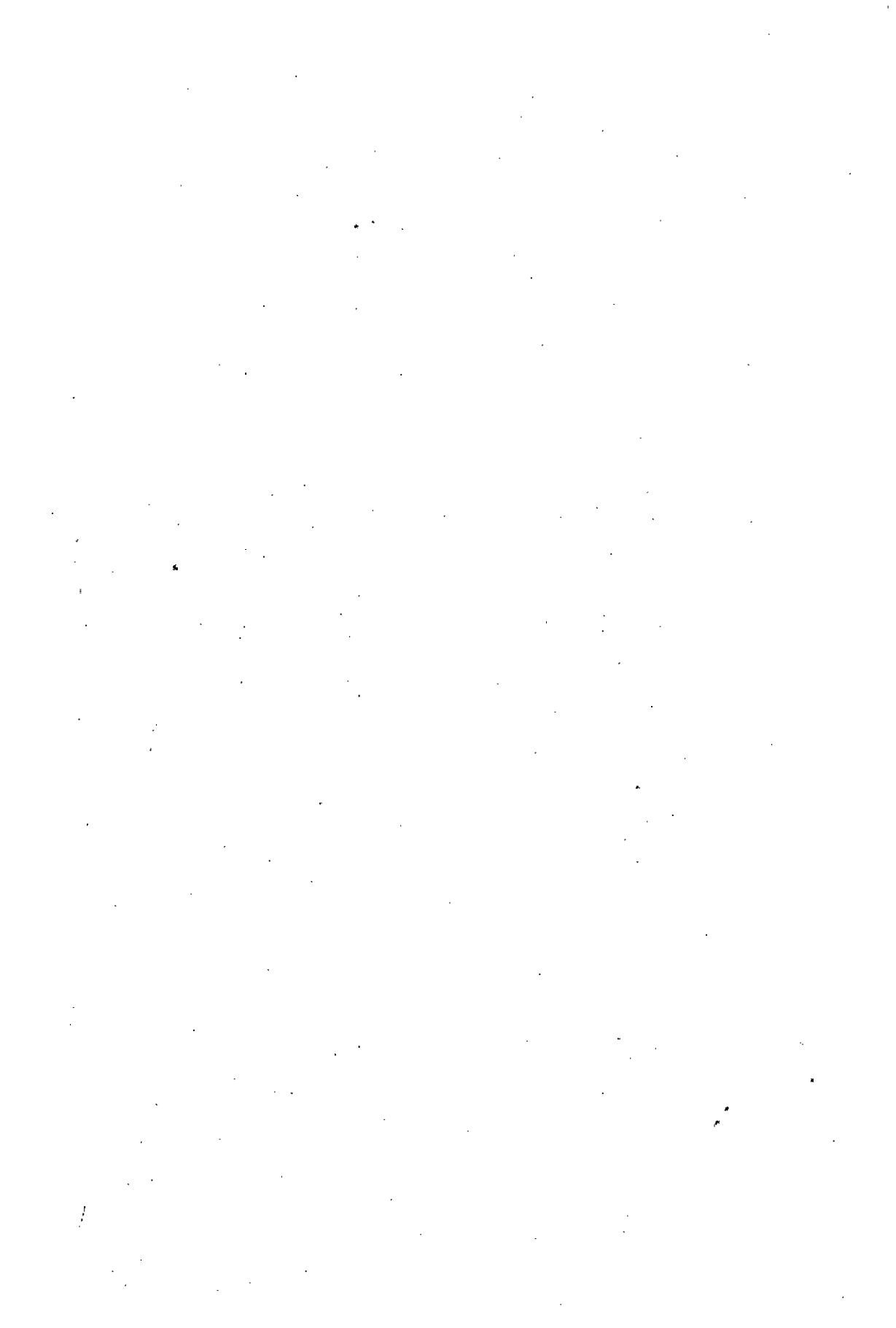
in

(Chemistry)

Chemistry Department
Faculty of Science,
Ain Shams University

1998

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

APPROVAL SHEET

Title of Thesis: Phytochemical Studies on *Diplotaxis acris* (Forssk.).

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ABSTRACT

Name : Nawal Hedaia Mohamed Hassan

Title : Phytochemical Studies on *Diplotaxis acris* (Forssk.).

Degree : Master of Science

Submitted to : Chemistry Department, Faculty of Science, Ain Shams University.

This investigation includes phytochemical and biological studies on *Diplotaxis acris* (Forssk.). It aimed to isolate and identify the chemical constituents of the plant (primary and secondary components). In addition to the previous study, preliminary biological study was done which aimed to clarify the pharmacognostical importance of the plant.

Key words: Flavonoid - volatile oils - alkaloids - *Diplotaxis*,
Cruciferae.

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100

51

1. *Phragmites* (common)

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1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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CONTENTS

	Page
INTRODUCTION	1
AIM OF STUDY	4
REVIEW OF LITERATURE	5
MATERIALS AND APPARATUS	12

I- PHYTOCHEMICAL STUDY

CHAPTER I : PRELIMINARY PHYTOCHEMICAL SCREENING, SUCCESSIVE EXTRACTS AND PROXIMATE ANALYSIS	16
CHAPTER II : STUDY OF CARBOHYDRATES CONTENT	25
CHAPTER.III: STUDY OF PROTEIN AND AMINO ACIDS CONTENT.....	30
CHAPTER IV: STUDY OF LIPID CONTENT.....	39
CHAPTER V : STUDY OF VOLATILE OIL CONTENT..	47
CHAPTER VI: STUDY OF PHENOLIC COMPOUNDS..	50
CHAPTER VII: STUDY OF ALKALOIDAL CONTENT...	85

II- BIOLOGICAL STUDY

CHAPTER VIII: ANTIMICROBIAL ACTIVITY OF DIFFERENT EXTRACTS OF <i>DIPLOTAXIS ACRIS</i>	90
GENERAL SUMMARY AND DISCUSSION	96
REFERENCES	102

ARABIC SUMMARY.

LIST OF FIGURES

Figure No.	Page
1 Photo of <i>Diplotaxis acris</i>	
2 Total amino acids analysis of <i>Diplotaxis acris</i>	36
3 Free amino acids analysis of <i>Diplotaxis acris</i>	37
4 GLC of fatty acids of <i>Diplotaxis acris</i>	45
5 GLC of volatile oils of <i>Diplotaxis acris</i>	48
6a-c U.V. spectrum of compound F ₁	54
7 ¹ H-NMR spectrum of compound F ₁	57
8a-c U.V. spectrum of compound F ₂	60
9a-c U.V. spectrum of compound F ₃	65
10a-c U.V. spectrum of compound F ₄	70
11a-c U.V. spectrum of compound F ₅	76
12 ¹ H-NMR spectrum of compound F ₅	79
13a-c U.V. spectrum of compound F ₆	82
14 IR spectrum of isolated quaternary base compound.....	89

LIST OF TABLES

Table No.	Page
1 Preliminary phytochemical screening of <i>Diplotaxis acris</i>	20
2 Percentage yield of successive extraction of <i>Diplotaxis acris</i>	21
3 Chemical investigation of the different successive extracts of <i>Diplotaxis acris</i>	22
4 Weight percent of pectin in different extracts of <i>Diplotaxis acris</i>	26
5 PC and TLC for free sugars and pectin hydrolysate of <i>Diplotaxis acris</i>	29
6 TLC and PC of the free amino acids, protein hydrolysate and total amino acids of <i>Diplotaxis acris</i> ...	33
7 Determination of free amino acids, protein hydrolysate and total amino acids concentration of <i>Diplotaxis acris</i> ..	38
8 GLC analysis of fatty acids methyl esters of <i>Diplotaxis acris</i>	46
9 Retention time and concentration of volatile oils of <i>Diplotaxis acris</i>	49
10 R_f -values and colour reactions of compound F_1	53
11 R_f -values and colour reactions of compound F_2	59
12 R_f -values and colour reactions of compound F_3	64
13 R_f -values and colour reactions of compound F_4	69

LIST OF TABLES (Cont.)

Table No.	Page
14 R _F -values and colour reactions of compound F ₅	74
15 R _F -values and colour reactions of compound F ₆	80
16 Percentage of total alkaloids of <i>Diplotaxis acris</i>	86
17 Effect of different concentrations of <i>Diplotaxis acris</i> extracts on the growth of some pollutant microorganisms	94
18 Minimum inhibitory concentration (MIC) of different extracts of <i>Diplotaxis acris</i> on some pollutant microorganisms in (ppm)	95