ve been recogniz ise of high doses		ant sources. Food ind	ention of some diseases dustry shows significant i otal phenolic content, the	interest in application o	of plant bioactiv	ve compounds	s for flavoring but	t also for preservat	tion purposes, b	out attention shou	uld be given
	plant species were: (1,cup) a) at 85 °C for 15 mir	n,	C		Table 4. Concentr	ration that cause 20 Treatment	% luminescence inhibition Concentration that cause 20% luminescence	and maximum dry plant ma It Plant mass per ref volume that cause 20% luminescence inhibition	ass per ret. volume Reference volur (mi)	ne Use in diet	
at room temperatur			Plant Sample		MOF	(b) (a)	92.33 48.00	(g) 18.47 9.60	200 200	Decoction	
	re with the assistance of ultr The herbal infusions were th		tof 85°C 3 for Stapped in water at room temperature, atlow to stand for 15 min	(c) Ultrasiound assisted extraction 15 min	ονυ	(b) (a)	12.95 3.29	6.48 0.66	500 200	In salads, appetized Decoction	
A DESCRIPTION OF A DESC	atman filter No.1.				001	(a) (b)	21.03	16.5 4.21	5000 200	During cooking pro	cess
racts were then	n further extracted by petrole	(a - pter Petroleum Ether	(b - pte) Petroleum Ether extraction	(c - 540) Petroleum Ether Extraction	ODI	(a) (b)	4.04 83.79	0.81 16.76	200 200	Decoction	
A-2					SOF	(a) (a)	18.95	3.79 94.75	200 5000	Decoction During cooking pro	cess
	nt and antioxidant activit	ty	natic Plan of extraction procedures	100	HOF	(b) (a)	65.10 11.90	13.02 2.38	200 200	Decoctions	
phenolic conte mined applying			using a Folin-Ciocalteu nzothiazoline-6-sulfonic ac		Results			1		0	
	1-picrylhydrazyl radical .		U	-	ether, expres	ssed in mg of c	caffeic acid /200 m	infusions and the Maximum values	were given by Me	lelissa officir <mark>ians.</mark> .	
ty tests	of the elect overacts has t	an performed using	HCDOTOX® texicity and		ranking of th	he total pheno	olic content. Result	d that is being det its show that there	is a scaling inc	rease in to <mark>tal phe</mark>	ame with th enolic conter
the marine bio	t of the plant extracts has b oluminescence bacteria Vib	orio fischeri as a ref <mark>e</mark>	rence test species for th	ne measurement of	lowest regard	dless the extra	action procedure. R	s exhibited the higher Ranking remains the			extraction b
Contraction of the second s	nibition. The protocol used v in order the EC <sub>50</sub> (Effective						infusions (table 2) t				ME
led by extrapola					Antioxidant a Maximum va	activity when de	etermined by ABTS en by Melissa offic	S method expressed cinalis. The ranking	d also µmole 1 ro of antioxidant a	lox / 200 ml (table ictivity regardless (	2): of the metho
1 Names and use of p	plant species examined				that is being	determined DI	PPH or ABTS is the	e same with the ran	nking of the total p	phenolic content.	5 N 1
s Sp	pecies Common	n name Plant part d	used Use	in diet	exposure exp	pressed as EC	250 value, at which	performed by applyin 50% loss of lumine	escence is obtain	ed. EC <sub>20</sub> was also	estimated,
l Origanu	sa officinalis Lemon num vulgare Orega um dictamnus Ditta	ano leaves	Herb in salads (fresh	octions or dry), roasted, stewed octions	which a 20% sample show	6 loss of light ws an effect pe	emission is observercentage greater the	ved, as according to han 20%. Results s	to the ISO guidel	lines (ISO 11348, <i>num vulgare</i> gave tr	1998) à tòx he lower EC
F Salvia	a officinalis Sag	ge Leaves	s Decoctions, as	a herb in cooking octions	values in all	treatments. F	Respectively, highe	er values were obta eatments (c) and (c	ained by Melissa		
Пузор			lers	Octions	Depending o	on the use of e	ach plant tested in	nutrition, was calcu	ulated the maxim		s, in 200ml f
	ecies expressed as EC50 (mg/ml) after 15	Treatmen				, was calculate	ed the synergism ra	, and in 5 It when is atio (SR) as follows:			able 4).
	(a) (a-pte)*1 119.75 210.68	(b) 200.61	(b-pte)*1 (c) 216.30 113.09	(c-pte)*1 126.93		SR <sub>anti</sub>	oxidant activity = Antioxi	al phenolics – pte / idant activity – pte /	Antioxidant activ	ixture vity mixture	
	38.31 139.60 10.56 42.87	150.67 60.46	162.75 96.05 110.75 62.61	101.47 96.87			SR <sub>toxic</sub>	<sub>icity</sub> = EC <sub>50-</sub> pte / EC <sub>50</sub>	, mixture		
	8.61 36.38 52.17 107.77	40.96 199.45	52.32 22.09 198.78 137.19	77.69 224.87	Table 5. SR <sub>toxicity</sub>	, SR <sub>total plenolic</sub> , SR <sub>DPPH</sub> ,	. SR <sub>ABTS</sub> indexes for sample t	tested			
3 Total Phenolic Con	ntent, Antioxidant Activity estimated by	DPPH and ABTS method	··· 🔿		Sample Code	Treatment	SR Effect *1 total	SR Effect* DPPH	1 SR E ABTS	Effect *1 SR toxicity*	Effect
	Treatment	Total Phenolic Content mg Caffeic acid / 200 ml	Antioxidant Activity DPPH µmole Trolox / 200 ml	Antioxidant Activity ABTS µmole Trolox / 200 ml	MOF	(.)	0.9 Synergism 0.7 Synergism	0.9 Synergis 0.9 Synergis		Synergism 1.1 Additive 1.1	Synergisr
		197.0 34.9	1268.3 206.4	1321.7 206.8	MO		0.7 Synergism 0.9 Synergism 1.0 Additive	0.9 Synergis 1.0 Additive 0.8 Synergis	re 1.0	Additive 1.1 Additive 1.8 Additive 1.1	Synergisn Synergisn Synergisn
Melissa officinalis Hyssopus officinalis		128.6	631.1	669.3 321.0	HOF	(c)	1.1 Antagonism	1.1 Antagoni:	ism 1.0	Additive 1.1	Synergisr
Melissa officinalis Hyssopus officinalis Driganum vulgare Iriganum dictamnus	(a)	63.9	299.7				0.9 Synergism 1.0 Additive	0.9 Synergis 0.8 Synergis	sm 0.8	Synergism 3.6 Synergism 1.8	Synergisr Synergisr
Melissa officinalis Hyssopus officinalis Driganum vulgare riganum dictamnus Salvia officinalis	(a)		299.7 328.2 1240.1	326.1 1319.5			1.0 Additive	0.9 Synergis	sm 0.9	Synergism 1.5	Synergisn
Melissa officinalis Hyssopus officinalis Origanum vulgare hriganum dictamnus Salvia officinalis Melissa officinalis Hyssopus officinalis	(a) (a - pte)	63.9 64.5	328.2		ODI	(.)	0.8 Synergism	0.8 Synergis		Additive 4.1	
Aelissa officinalis hyssopus officinalis hyganum vulgare riganum dictamnus alvia officinalis Aelissa officinalis hyssopus officinalis hyganum vulgare riganum dictamnus		63.9 64.5 185.9 31.7	328.2 1240.1 182.5	1319.5 190.2	ODI OVU	(a) (b) (c)	0.8     Synergism       0.8     Synergism       0.8     Synergism	0.8 Synergis 0.9 Synergis 0.9 Synergis	sm 0.9 sm 0.8	Synergism 1.3 Synergism 3.5	Synergisr
Melissa officinalis Hyssopus officinalis Origanum vulgare Driganum dictamnus Salvia officinalis Melissa officinalis Origanum vulgare Driganum vulgare Driganum dictamnus Salvia officinalis		63.9 64.5 185.9 31.7 105.1 51.3	328.2 1240.1 182.5 565.2 227.7	1319.5 190.2 595.2 311.9	ονυ	(a) (b) (c) (a) (b)	0.8Synergism0.8Synergism0.8Synergism0.8Synergism1.0Additive	0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis	sm 0.9 sm 0.8 sm 0.9 sm 0.9	Synergism1.3Synergism3.5Synergism4.2Synergism1.0	Synergism Synergism Synergism Additive
Melissa officinalis lyssopus officinalis origanum vulgare ginarum dictamnus ahvia officinalis veissopus officinalis origanum vulgare delissa officinalis delissa officinalis delissa officinalis lyssopus officinalis lyssopus officinalis		63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8	328.2 1240.1 182.5 565.2 227.7 306.9 644.5	1319.5 190.2 595.2 311.9 323.1 766.8		(a) (b) (c) (a) (b) (c)	0.8Synergism0.8Synergism0.8Synergism0.8Synergism	0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis	sm     0.9       sm     0.8       sm     0.9       sm     0.9       sm     0.9       sm     0.9	Synergism1.3Synergism3.5Synergism4.2	Synergisr Synergisr Synergisr Additive Synergisr
Melissa officinalis Melissa officinalis Organum vulgare Organum vulgare Balva officinalis Balva officinalis Organum vulgare Organum vulgare Organum vulgare Organum vulgare Organum vulgare Organum vulgare Organum vulgare Organum sulgare	(a – pte)	63.9 64.5 185.9 31.7 105.1 61.3 62.0 135.8 10.7 63.5 28.3 15.5	328.2 1240.1 182.5 565.2 227.7 306.9 644.5 51.5 290.1 153.5 77.3	1319.5 190.2 595.2 311.9 323.1 766.8 69.2 309.5 169.6 99.2	OVU SOF *1 : In case of Tot	(a) (b) (c) (a) (c) (a) tal Phenolic Content	0.8     Synergism       0.8     Synergism       0.8     Synergism       0.8     Synergism       1.0     Additive       1.7     Antagonism       1.0     Additive       and Antioxidant Activity. State	0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.8 Synergis 0.8 Synergis 0.9 Synergis	sm 0.9 sm 0.8 sm 0.9 sm 0.9 sm 0.9 sm 0.9 sm 1.0 r> indicates antagonism	Synergism     1.3       Synergism     3.5       Synergism     4.2       Synergism     1.0       Synergism     1.6       Additive     2.1       and SR = 1 indice     and SR	Synergisr Synergisr Synergisr Additive Synergisr
Malissa officinalis Hyssopus officinalis Origanum valgar Origanum valgar Origanum dictamnus Salvia officinalis Hyssopus officinalis Hyssopus officinalis Hyssopus officinalis Hyssopus officinalis Malissa officinalis Malissa officinalis Malissa officinalis Malissa officinalis	(a – pte) (b)	63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4	328.2 1240.1 182.5 5655.2 227.7 306.9 644.5 51.5 220.1 153.5 77.3 605.5 39.2	1319.5 190.2 596.2 311.9 322.1 766.8 69.2 309.5 166.6 99.2 684.3 71.0	OVU SOF *1 : In case of Tot *2: In case of toxi	(a) (b) (c) (a) (c) (a) tal Phenolic Content tai Phenolic Content tai Change (1) tai Content	0.8     Synergism       0.8     Synergism       0.8     Synergism       0.8     Synergism       1.0     Additive       1.7     Antagonism       1.0     Additive       1.7     Antagonism       1.0     Additive       and Antioxidant Activity, Scotes antagonism, SR <sub>essecty</sub>	0.8 Synergis   0.9 Synergis   0.9 Synergis   0.9 Synergis   0.9 Synergis   0.9 Synergis   0.9 Synergis   0.8 Synergis   0.9 Synergis   0.8 Synergis   0.9 Synergis   5R<1	sm     0.9       sm     0.8       sm     0.9       sm     0.9       sm     0.9       sm     1.0       spin     1.0       spin     1.0       spin     1.0	Synergism 1.3   Synergism 3.5   Synergism 1.0   Synergism 1.0   Additive 2.1   n and SR = 1 indice additive	Synergisr Synergisr Synergisr Additive Synergisr Synergisr
Melissa officinalis Hyssopus officinalis Origanum vulgare Origanum dictamuus Salvia officinalis Hyssopus officinalis Hyssopus officinalis Hyssopus officinalis Hyssopus officinalis Hyssopus officinalis Origanum dictamnus Salvia officinalis Hyssopus officinalis Origanum vulgare Origanum vulgare Origanum vulgare Origanum vulgare Origanum vulgare	(a – pte)	63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 53.9 27.9	328.2 1240.1 182.5 5665.2 227.7 306.9 644.5 51.5 290.1 153.5 77.3 605.5 30.2 262.8 123.7	1319.5 190.2 595.2 311.9 323.1 766.8 69.2 300.5 169.6 99.2 684.3 71.0 267.1 139.1	OVU SOF *1 : In case of Tot *2: In case of tot	(a) (b) (c) (a) (b) (c) (a) tal Phenolic Content icity, SR <sub>eaceby</sub> <1 indic Results of this	0.8 Synergism 0.8 Synergism 0.8 Synergism 0.8 Synergism 1.0 Additive 1.7 Antagonism 1.0 Additive and Antioxidant Activity S cates antagonism, Sflaces s study indicate that	0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.8 Synergis 0.8 Synergis 0.9 Synergis	sm     0.9       sm     0.8       sm     0.9       sm     0.9       sm     1.0       r> indicates antagonism     ISR = 1 indicates additiv       pecies     examined	Synergism 1.3   Synergism 3.5   Synergism 4.2   Synergism 1.0   Synergism 1.6   Additive 2.1   n and SR = 1 indicer order   d, Melissa officinal	Synergisr Synergisr Additive Synergisr Synergisr Synergisr the detion
Melissa officinalis Melissa officinalis Organum vulgas Organum vulgas Salvia officinalis Salvia officinalis Melissa officinalis Melissa officinalis Melissa officinalis Melissa officinalis Salvia officinalis Melissa officinalis Hyissopus officinalis Hyissopus officinalis Melissa officinalis Melissa officinalis Melissa officinalis Salvia officinalis	(a – pte) (b)	639 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 5.9 27.9 15.5 15.9	328.2 1240.1 182.5 565.2 227.7 306.9 644.5 51.5 290.1 153.5 77.3 605.5 39.2 2262.8 123.7 66.3 752.7	1319.5 190.2 595.2 331.9 323.1 768.8 69.2 300.5 160.6 99.2 684.3 71.0 267.1 139.1 89.6 871.8	OVU SOF *1 : In case of Tot *2: In case of tot *2: In case of tot the higher, a seems to infi	(a) (b) (c) (a) (b) (c) (a) tal Phenolic Content ticity, SR <sub>tuncty</sub> <1 indic Results of this Results of this and <i>Hyssopus</i>	0.8 Synergism 0.8 Synergism 0.8 Synergism 0.8 Synergism 1.0 Additive 1.7 Antagonism 1.0 Additive and Antiosidant Activity, 5 cates antagonism, 5R <sub>matego</sub> 2 s study indicate thh s study indicate the Jowa cantly the extraction	0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.1 indicates synergism and at between plant sp	sm     0.9       sm     0.8       sm     0.9       sm     0.9       sm     0.9       sm     1.0       v2 indicates antogonism       I SR = 1 indicates additiv       peccies examinect       t and actioxidant       bounds and antio	Synergism 1.3   Synergism 3.5   Synergism 1.0   Synergism 1.0   Synergism 1.6   Additive 2.1   a and SR = 1 indices and   d, Mellissa officianal afficianal   t activity. Extraction tixtactivity res	Synergisr Synergisr Additive Synergisr Synergisr Synergisr the detion
Malissa officinalis Hyssopus officinalis Origanum vigas Origanum vigas Malissa officinalis Malissa officinalis	(a – pte) (b)	639 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 63.9 27.9 15.5 15.5 119.1 15.5 15.5 119.1 15.5 15.5	328.2 1240.1 182.5 565.2 227.7 306.9 644.5 51.5 2200.1 153.5 77.3 605.5 39.2 262.8 123.7 66.3 752.7 49.7 232.5	1319.5 190.2 595.2 311.9 323.1 766.8 69.2 300.5 160.6 99.2 684.3 71.0 267.1 139.1 836. 871.8 85.2 344.5	OVU SOF 1: in case of tot 2: in case of tot Conclusions. I the higher, a seems to infl great differer observed in	(a) (b) (c) (a) (c) (a) tal Phenolic Content ticity, SR <sub>texty</sub> - 1 indic Results of this and <i>Hyssopus</i> fluence signific inces were ob	0.8 Synergiam 0.8 Synergiam 0.8 Synergiam 0.8 Synergiam 1.0 Additive 1.7 Antagonism 1.0 Additive and Antioxidant Activity. 5 s study indicate that c officinalis the lowe cantly the extraction oserved between e assisted extraction	0.8 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 55-C1 indicates synergiam and at between plant sp er phenolic compen- traphenolic content n of phenolic content n of phenolic compen- surtractions in high - n. Similar results	sm     0.9       sm     0.8       sm     0.9       sm     0.9       sm     1.0       Particites antagonism     1.0       Sine 1 indicates additiv     1.0       pecies examinect     1 and actioxidant       vounds and antio     and smoot temper       and room temper     were obtained	Synergism 1.3   Synergism 3.5   Synergism 1.0   Synergism 1.0   Synergism 1.6   Additive 2.1   n and SR = 1 indicate notice   dd, Melissa officianali   td activity. Extraction   xxite activity. Extraction   xxite activity. Extraction   xxite activity. Text activity reserves   erature. A smart to	Synergism Synergism Additive Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergism Synergi
Malissa officinalis Hyssopus officinalis Origanum vigare Origanum dictamous Salvia officinalis Hyssopus officinalis Hyssopus officinalis Origanum videamous Salvia officinalis Hyssopus officinalis Origanum vidgare Origanum dictamnus Salvia officinalis Origanum vidgare Origanum vidgare	(a - pte) (b) (b - pte)	63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 63.9 27.9 15.5 159.9 15.5	328.2 1240.1 182.5 5655.2 227.7 306.9 644.5 51.5 220.1 153.5 77.3 605.5 39.2 282.8 123.7 66.3 752.7 49.7	1319.5 190.2 595.2 311.9 323.1 766.8 69.2 309.5 169.6 99.2 684.3 71.0 267.1 139.1 89.6 871.8 85.2	OVU SOF *1: In case of Tot *2: In case of tot Conclusions. I the higher, a seems to infl great differer operved in petroleum et	(a) (b) (c) (a) (c) (a) tal Phenolic Content ticity, SR <sub>texty</sub> - 1 indic Results of this and <i>Hyssopus</i> fluence signific inces were ob	0.8 Synergism 0.8 Synergism 0.8 Synergism 0.8 Synergism 1.0 Additive 1.7 Antagonism 1.0 Additive 1.7 Antagonism, SR encop 3 study indicate thh 5 study indicate the 5 study indicate the conficinalis the low cantly the extraction oserved between e assisted extraction ostilve correlation	0.8 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.8 Synergia 0.9 S	sm     0.9       sm     0.8       sm     0.9       sm     0.9       sm     1.0       Particites antagonism     1.0       Sine 1 indicates additiv     1.0       pecies examinect     1 and actioxidant       vounds and antio     and smoot temper       and room temper     were obtained	Synergism 1.3   Synergism 3.5   Synergism 1.0   Synergism 1.0   Synergism 1.6   Additive 2.1   n and SR = 1 indicate notice   dd, Melissa officianali   td activity. Extraction   xxite activity. Extraction   xxite activity. Extraction   xxite activity. Text activity reserves   erature. A smart to	Synergisn Synergisn Additive Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergisn Synergi
F Melissa officinalis Hyssopus officinalis J Organum vulgano Organum vulgano Sahia officinalis F Melissa officinalis F Melissa officinalis F Melissa officinalis F Melissa officinalis Hyssopus officinalis F Melissa officinalis F Melissa officinalis F Melissa officinalis F Hyssopus officinalis F Melissa officinalis F Melissa officinalis	(a - pte) (b) (b - pte)	63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 53.9 27.9 15.5 159.9 13.1 68.3 34.5	328.2 1240.1 182.5 565.2 227.7 306.9 644.5 51.5 220.1 153.5 77.3 605.5 39.2 262.8 123.7 66.3 772.7 40.7 40.7 323.5	1319.5 190.2 595.2 311.9 323.1 766.8 69.2 300.5 160.6 99.2 684.3 71.0 267.1 139.1 139.1 89.6 871.8 85.2 344.5 177.6	Ovu SOF 1: in case of tot 2: in case of tot 2: in case of tot Conclusions. I the higher, a seems to infl great differen observed in petroleum et activity in the	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	0.8 Synergiam 0.8 Synergiam 0.8 Synergiam 0.8 Synergiam 1.0 Additive 1.7 Anlagonism 1.0 Additive and Antioxidant Activity, S and Antioxidant Activity, S s study indicate that c officinalis the lowe cantly the extraction osserved between e assisted extractor ossitive correlation died.	0.8 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 55-C1 indicates synergiam and at between plant sp er phenolic compen- traphenolic content n of phenolic content n of phenolic compen- surtractions in high - n. Similar results	sm 0.9 sm 0.8 sm 0.9 sm 0.9 sm 0.9 sm 1.0 br.indicates antoponism SR = 1 indicates additiv pecies examinect t and actioxidant sounds and antio and room tempe were obtained etween total phe	Synergism 1.3 Synergism 3.5 Synergism 4.2 Synergism 1.0 Additive 2.1 a and SR = 1 indicate notation d, Mellissa officianal d, Mellissa officianal tactivity. Ektractio oxidant activity res erature. A small fu when influsions e enolic content and	Synergism Synergism the ection lis presented on procedure pectively, as ncrease was
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Melissa officinalis Hyssopus officinalis Hyssopus officinalis Origanum vilgare Origanum vilgare	(a - pte) (b) (b - pte) (c)	63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 53.9 27.9 15.5 159.9 13.1 68.3 34.5 16.9 114.7 15.0	328.2 1240.1 182.5 5655.2 227.7 306.9 644.5 51.5 220.1 153.5 77.3 605.5 39.2 282.8 123.7 663.3 752.7 49.7 323.5 177.0 83.7 676.0 55.7	1319.5 190.2 595.2 311.9 323.1 766.8 69.2 300.5 169.6 99.2 684.3 71.0 267.1 139.1 139.1 139.1 139.1 139.4 89.6 85.2 344.5 179.6 123.1 834.9 86.1	OVU SOF *1: In case of Tot *2: In case of tot Conclusions. I the higher, a seems to infl great differen observed in petroleum et activity in the Toxicity of in correlation w soluble subst	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c	0.8 Synergism 0.8 Synergism 0.8 Synergism 0.8 Synergism 1.0 Additive 1.7 Anlagonism 1.0 Additive 1.7 Anlagonism, Samo 1.0 Additive 1.7 Anlagonism, Samo 1.0 Additive 1.7 Anlagonism, Samo 1.0 Additive 0.17 Additite 0.17 Additite 0.17 Additite 0.17 Additite 0.17 Additite 0.17 A	0.8 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.9 Synergis 0.1 indicates synergism and at between plant s er phenolic content n of phenolic comp extractions in high - on. Similar results has been found bi fluenced by the te	sm 0.9 sm 0.8 sm 0.9 sm 0.9 sm 0.9 sm 0.9 sm 1.0 be indicates antroponism sist = 1 indicates anditw pecies examined t and actioxidant bounds and antio and room tempe were obtained etween total phe emperature and to content or antit ble in case of tot	Synergism 1.3   Synergism 3.5   Synergism 1.0   Synergism 1.0   Synergism 1.0   Additive 2.1   a and SR = 1 indices model   d, Melissa officianal   tactivity. Extraction   xidant activity reservature. A small fit when influeions to enolic content, and extraction proceed   extraction proceed   oxidant activity. In xidir	Synergian Synergian Synergian Additive Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergian Synergi
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Malissa officinalis Hyssopus officinalis Origanum vigars Origanum vigars	(a - pte) (b) (b - pte) (c) (c - pte)	63.9 64.5 185.9 31.7 105.1 51.3 62.0 135.8 10.7 63.5 28.3 15.5 119.1 10.4 53.9 27.9 15.5 159.9 13.1 68.3 34.5 16.9 13.1 68.3 13.1 68.3 15.9 13.1 68.3 13.1 68.3 15.9 13.1 68.3 13.1 68.3 13.1 68.3 13.1 68.3 24.5 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15	328.2 1240.1 182.5 565.2 227.7 306.9 644.5 51.5 220.1 153.5 77.3 605.5 39.2 282.8 123.7 66.3 752.7 49.7 323.5 177.0 83.7 676.0 55.7 276.3 155.5 68.6	1319.5 190.2 596.2 311.9 323.1 766.8 69.2 300.5 160.6 99.2 684.3 71.0 267.1 133.1 80.6 871.8 85.2 344.5 179.6 122.1 834.9 86.1 288.7 160.3 107.9	SOF *1: In case of Tot *2: In case of Tot *2: In case of tot Conclusions. I the higher, a seems to infl great differen observed in petroleum et activity in the Toxicity of in correlation w soluble subsi- total phenolic	(a) (b) (c) (a) (b) (c) (a) tal Phenolic Content tielty, SR <sub>bucky</sub> - 1 mdic (a) tal Phenolic Content (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	0.8 Synergism 0.8 Synergism 0.8 Synergism 0.8 Synergism 1.0 Additive 1.7 Anlagonism 1.0 Additive 1.7 Anlagonism 1.0 Additive 1.7 Anlagonism 2.8 Study indicate that officinalis the low cantly the extraction served between e assisted extraction ositive correlation died. ms to be also infi between toxicity an e essential oil of pl antioxidant activity	0.8 Synergie 0.9 Synergie 0.9 Synergie 0.9 Synergie 0.9 Synergie 0.8 Synergie 0.8 Synergie 0.9 Synergie 0.9 Synergie 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.9 Synergies 0.0 Similar results has been found be fluenced by the te 0.4 the total phenolic dants were remarkal	sm 0.9 sm 0.8 sm 0.9 sm 0.9 sm 0.9 sm 0.9 sm 1.0 be indicates antroponism sist = 1 indicates anditw pecies examined t and actioxidant bounds and antio and room tempe were obtained etween total phe emperature and to content or antit ble in case of tot	Synergism 1.3   Synergism 3.5   Synergism 1.0   Synergism 1.0   Synergism 1.0   Additive 2.1   a and SR = 1 indices model   d, Melissa officianal   tactivity. Extraction   xidant activity reservature. A small fit when influeions to enolic content, and extraction proceed   extraction proceed   oxidant activity. In xidir	Synergia Synergia Synergia Additive Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Synergia Syn
Melissa officinalis tyssopus officinalis tyssopus officinalis officinalis divisa officinalis tyssopus officinalis	(a - pte) (b) (b) (c - pte) (c - pte)	633 645 1859 317 1051 513 620 1358 107 635 283 155 1191 104 559 279 155 159 131 663 345 169 114.7 150 57.6 329 28.0	328.2 1240.1 182.5 565.2 227.7 306.9 644.5 51.5 290.1 153.5 77.3 605.5 39.2 262.8 123.7 66.3 752.7 40.7 323.5 177.0 83.7 676.0 55.7 276.3 155.5 68.8 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 195.5 19	1319.5 190.2 595.2 331.9 323.1 766.8 69.2 300.5 166.6 99.2 664.3 71.0 267.1 139.1 139.1 88.6 87.8 87.8 85.2 344.5 172.6 122.1 834.9 85.1 228.7 160.3 107.9	OVU SOF 1 : In case of fort 2: In case of tort case of tort great differer observed in petroleum et activity in the Toxicity of in correlation w soluble subst total phenolic	(a) (b) (c) (c) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	0.8 Synergism 0.8 Synergism 0.8 Synergism 0.8 Synergism 1.0 Additive 1.7 Anlagonism 1.0 Additive 1.7 Anlagonism 1.0 Additive 1.7 Anlagonism 2.8 Study indicate that officinalis the low cantly the extraction served between e assisted extraction ositive correlation died. ms to be also infi between toxicity an e essential oil of pl antioxidant activity	0.8 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.9 Synergia 0.8 Synergia 0.9 Synergia 0.9 Synergia 5.1 indicates synergism and at between plant sy er phenolic compo- stractions in high on. 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