

Supplementary information Phytochemical analysis

Table S1. Preliminary phytochemical analysis of extracts prepared from the inner bark of *T. rosea*

PHYTOCHEMICAL COMPONENT	REAGENT	MEOH	HEX	CHCL ₃	ACET (SUN)	ACET (INS)	BUOH	H ₂ O
PHENOLS AND TANNINS	FeCl ₃ /EtOH	+	-	++	+	+	+	-
FLAVONOIDS	AlCl ₃ /EtOH	+++	+	+	+++	+++	+++	+
LIGNANS	UV 365 nm	++	-	+	++	++	++	+
	Vanillin/EtOH-H ₃ PO ₄	+++	+++	+++	+++	+++	+++	++
ANTHRONES	KOH/EtOH	++	-	-	-	++	++	++
ANTHRAQUINONES		+	-	+++	-	-	-	-
COUMARINS		++	++	+++	+++	+++	+++	+
TERPENES/TERPENOIDS STEROLS/STERIODS	Liebermann-Burchard	++	+++	+++	+++	+++	++	+
	Vanillin-H ₃ PO ₄	+++	++	+++	+++	++	++	++
	Anisaldehyde- AcAc-H ₂ SO ₄	+	++	++	+	+	-	-
IRIDIODS	Vanillin-H ₂ SO ₄	++	+++	+++	+++	++	-	-
TRITERPENES	Anisaldehyde- AcAc-H ₂ SO ₄	-	-	-	-	-	-	-
SAPONINS		++	+	+++	++	++	++	-
TRITERPENES AND SAPONINS	SbCl ₃ /MeOH	++	+++	+++	+++	++	++	-
SESQUITERPENE LACTONES	Oleum	-	-	-	-	-	-	-
ALDEHYDES AND KETONES	DNPH	++	++	+++	+	++	++	+
UNSATURATED FATTY ACIDS	Iodine	+++	+++	+++	+++	+++	+++	++
ANTIOXIDANT COMPOUNDS	DPPH	+++	+++	+++	+++	+++	+++	+++

Table S2. Preliminary phytochemical analysis of extracts obtained from *T. rosea* leaves

PHYTOCHEMICAL COMPONENT	REAGENT	MEOH	HEX	CHCL ₃	ACET (SUN)	ACET (INS)	BUOH	H ₂ O
PHENOLS AND TANNINS	FeCl ₃ /EtOH	++	-	-	+++	+++	+++	-
FLAVONOIDS	AlCl ₃ /EtOH	++	+	-	+++	+++	++	+
LIGNANS	UV 365 nm	+	-	-	++	++	++	+
	Vanillin/EtOH-H ₃ PO ₄	++	++	++	+++	++	++	++
ANTHRONES	KOH/EtOH	+++	+	++	+++	+++	+++	+
ANTHRAQUINONES		-	-	-	-	-	-	-
COUMARINS		+	+	-	+++	++	++	+
TERPENES/TERPENOIDS STEROLS/STEROIDS	Liebermann-Burchard	+++	+++	+++	+++	++	+++	+
	Vanillin-H ₃ PO ₄	+++	+++	+++	+++	+++	+++	-
IRIDOIDS	Anisaldehyde-AcAc-H ₂ SO ₄	+++	+++	+++	++	-	-	-
	Vanillin-H ₂ SO ₄	+++	+++	+++	+++	-	++	-
TRITERPENES	Anisaldehyde-AcAc-H ₂ SO ₄	++	+++	+++	+	-	-	-
SAPONINS		+++	+++	+++	++	++	++	-
TRITERPENES AND SAPONINS	SbCl ₃ /MeOH	+++	+	++	+++	+++	+++	-
SESQUITERPENE LACTONES	Oleum	-	-	-	-	-	-	-
ALDEHYDES AND KETONES	DNPH	++	+++	++	+++	++	++	+
UNSATURATED FATTY ACIDS	Iodine	++	+++	+++	+++	++	+++	++
ANTIOXIDANT COMPOUNDS	DPPH	+++	+++	+	+++	+++	+++	++

Table S3. Preliminary phytochemical analysis of extracts prepared from the inner bark of *T. chrysantha*.

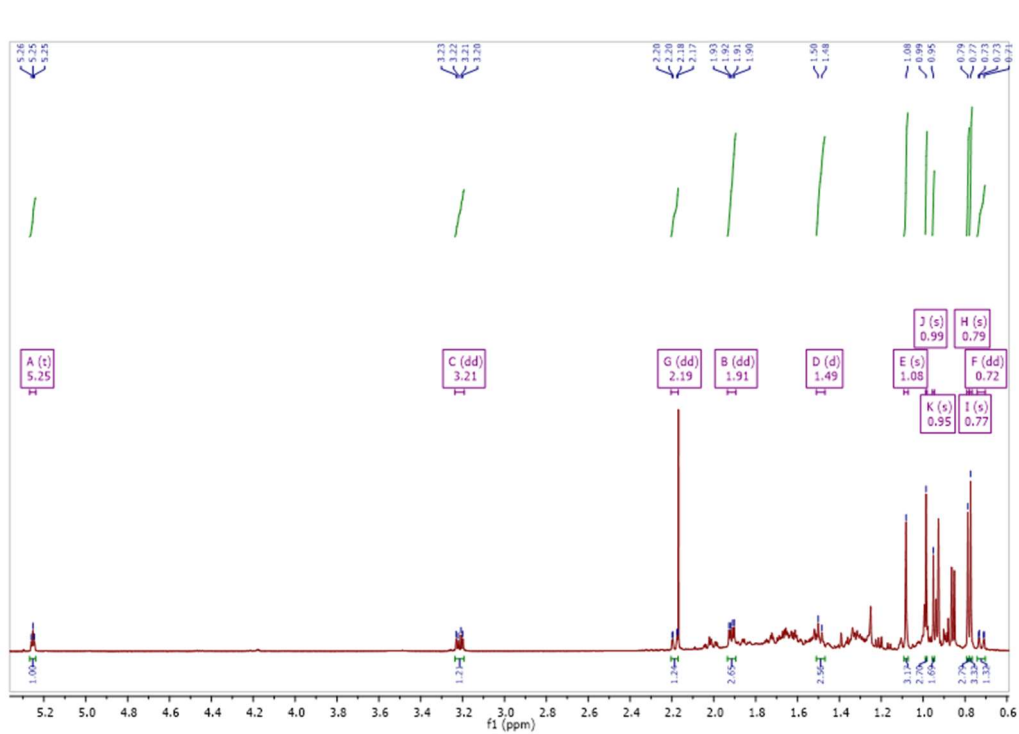
PHYTOCHEMICAL COMPONENT	REAGENT	MEOH	HEX	CHCL ₃	ACET (SUN)	ACET (INS)	BUOH	H ₂ O
PHENOLS AND TANNINS	FeCl ₃ /EtOH	++	+	+	+++	+++	+++	-
FLAVONOIDS	AlCl ₃ /EtOH	++	+	++	+++	+++	+++	-
LIGNANS	UV 365 nm	++	-	+	+++	++	++	-
	Vanillin/EtOH-H ₃ PO ₄	+++	+	+	++	++	++	++
ANTHRONES	KOH/EtOH	++	+	-	+++	+++	+++	-
ANTHRAQUINONES		+	++	+++	-	-	-	-
COUMARINS		++	+	++	++	++	++	+
TERPENES/TERPENOIDS STEROLS/STERIODS	Liebermann-Burchard	+++	++ +	+++	+++	+++	+++	++
	Vanillin-H ₃ PO ₄	++	++ +	+++	+++	+++	+++	++
IRIDOIDS	Anisaldehyde-AcAc-H ₂ SO ₄	++	++ +	+++	+++	-	-	-
	Vanillin-H ₂ SO ₄	+++	++ +	+++	+++	+++	+++	+
TRITERPENES	Anisaldehyde-AcAc-H ₂ SO ₄	++	++ +	+++	++	-	-	-
SAPONINS		++	++ +	++	++	-	-	-
TRITERPENES AND SAPONINS	SbCl ₃ /MeOH	+	++ +	+++	++	++	++	+
SESQUITERPENE LACTONES	Oleum	-	-	-	-	-	-	-
ALDEHYDES AND KETONES	DNPH	++	++ +	+++	++	++	++	-
UNSATURATED FATTY ACIDS	Iodine	+++	++ +	+++	+++	+++	+++	++
ANTIOXIDANT COMPOUNDS	DPPH	+++	++ +	+++	+++	+++	+++	+++

Table S4. Preliminary phytochemical analysis of extracts prepared from leaves of *T. chrysantha*.

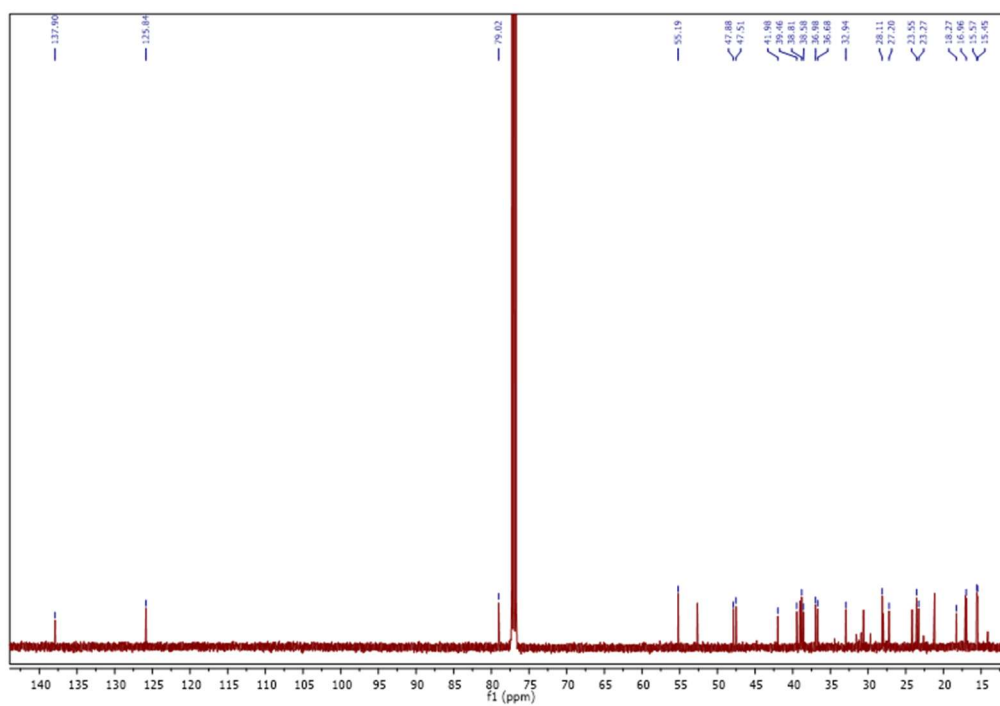
Phytochemical Core	Reagent	MeOH	CHCl3	AcEt	Buoh	H ₂ O
Phenols and Tannins	FeCl ₃ /EtOH	++	-	+++	+++	-
Flavonoids	AlCl ₃ /EtOH	+++	-	+++	+++	++
Lignans	UV 365 nm	+++	+	+++	+++	++
	Vanillin/EtOH-H ₃ PO ₄	+++	+	+++	+++	++
Anthrones	KOH/EtOH	++	+	+++	+++	++
Anthraquinones		-	-	+	-	-
Coumarins		+	+	+	++	+
Terpenes/Terpenoids	Liebermann-Burchard	+++	+++	++	++	++
	Vanillin-H ₃ PO ₄	++	+++	+++	+++	++
Sterols/Steroids	Anisaldehyde- AcAc-H ₂ SO ₄	+++	+++	++	-	-
		+++	+++	+	+	-
Iridoids	Vanillin-H ₂ SO ₄	+++	+++	+	+	-
Triterpenes	Anisaldehyde- AcAc-H ₂ SO ₄	+++	+++	+	-	-
Saponins		+++	+++	++	++	+
Triterpenes	SbCl ₃ /MeOH	++	++	++	++	+
Saponins		++	++	++	++	+
Sesquiterpene Lactones	Oleum	-	-	-	-	-
Aldehydes and Ketones	DNPH	+	-	+++	++	++
Unsaturated Fatty Acids	Iodine	+++	+++	+++	+++	+++
Antioxidant compounds	DPPH	+++	++	+++	+++	+++

Supplementary information β -amyrin spectra

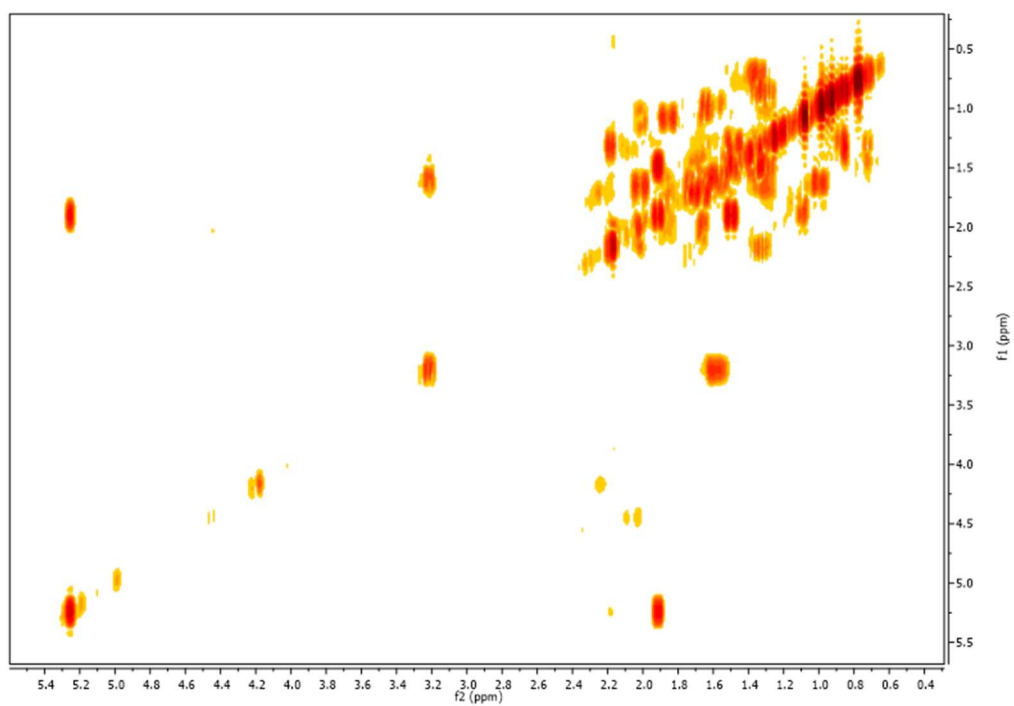
RMN- ^1H β -amirin



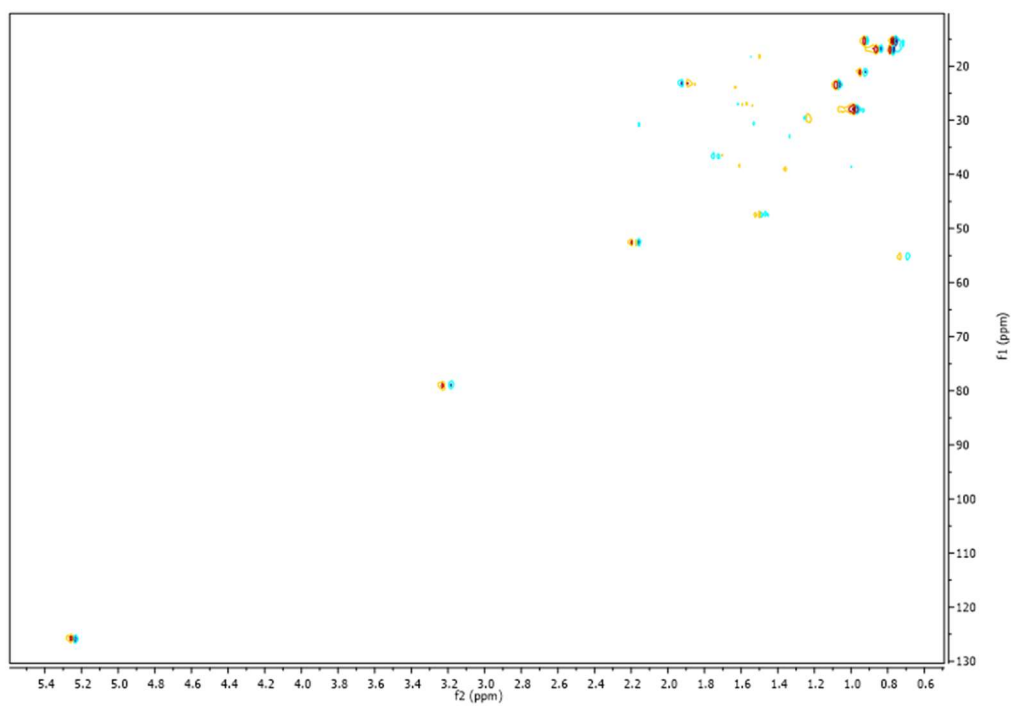
RMN-¹³C β-amirin



COSY β -amirin



HSQC β -amirin



HMBC β -amirin

