

## Supporting information

# Sustainable phytosterol extraction from *Codium tomentosum* using eutectic solvents

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**Table S1** – The initial thirty-five HBA and sixty-four HBD used in this work, with the respective number-compound correspondence.

	Urea	Amino acids	Carboxylic acids	Fatty acids	Alcohols	Sugars	Quaternary ammonium/ sulfonium/ phosphonium salts	Terpenes	
<b>Hydrogen bond acceptors (HBAs)</b>	Urea (1)	Betaine (2) Glycine (3) L-Proline (4) L-Serine (5) β-Alanine (6) L-Histidine (7) L-Threonine (8) L-Lysine (9) L-Arginine (10)	Lactic acid (11) Malic acid (12) Citric acid (13) Oxalic acid (14)	Octanoic acid (15) Nonanoic acid (16) Decanoic acid (17) Dodecanoic acid (18)	Glycerol (19)	–	Cholinium chloride (20) Choline bitartrate (21) Choline acetate (22) Sodium acetate (23) Ammonium acetate (24) Ethylammonium chloride (25) Acetylcholine chloride (26) Carnitine hydrochloride (27) N, N-diethylethanolammonium chloride (28) Tetraethylammonium chloride (29) Tetrapropylammonium chloride (30) Tetrabutylammonium chloride (31) Methyltriphenyl-phosphonium bromide (32) Sodium propionate (33)	Menthol (34) Thymol (35)	
	<b>Hydrogen bond donors (HBDs)</b>	Urea (1)	β-Alanine (54)	Formic acid (33)	Octanoic acid (50)	Glycerol (3)	Arabinose (21)	–	Menthol (63)
		Dimethylurea (2)	L-Arginine (55)	Acetic acid (34)	Nonanoic acid (51)	Ethylene glycol (4)	D-Fructose (22)		Thymol (64)
			Glycine (56)	Aconitic acid (35)	Decanoic acid (52)	1,2-propanediol (5)	D-Galactose (23)		
			L-Histidine (57)	Ascorbic acid (36)	Dodecanoic acid (53)	1,3-butanediol (6)	D-Glucose (24)		
			L-Lysine (58)	Citric acid (37)		2,3-butanediol (7)	Maltose (25)		
			L-Proline (59)	Fumaric acid (38)		1,6-hexanediol (8)	D-Mannose (26)		
			L-Serine (60)	Glycolic acid (39)		1,5-pentanediol (9)	Raffinose (27)		
			L-Threonine (61)	Lactic acid (40)		1,7-heptanediol (10)	L-Rhamnose (28)		
			Betaine (62)	Levulinic acid (41)		1,8-octanediol (11)	L-Sorbose (29)		
			Maleic acid (42)		1,9-nonanediol (12)	Sucrose (30)			
			Malic acid (43)		1,10-decanediol (13)	D-Trehalose (31)			
			Malonic acid (44)		1,15-Pentadecanediol (14)	Xylose (32)			
			Oxalic acid (45)		1, 4-butanediol (15)				
			Propionic acid (46)		Erythritol (16)				
			Succinic acid (47)		Inositol (17)				
		Tartaric acid (48)		D-Mannitol (18)					
		Nicotinic acid (49)		Sorbitol (19)					
				Xylitol (20)					