

Table S1. Total amino acid profile of CBS and CPH (mg/100g DM). Results of chemical analyses are the means of three replicates with standard deviation below 5%.

Amino acid	CPH	CBS
Histidine	35.23	149.69
Arginine	147.07	626.84
Serine	225.37	700.08
Glycine	169.36	678.14
Aspartic	434.15	1529.94
Glutamic	495.33	2011.19
Threonine	150.86	590.27
Alanine	206.16	805.64
Proline	214.71	744.13
Lysine	261.35	1015.78
Methionine	nd	182.85
Tyrosine	78.61	519.92
Valine	141.88	578.51
Cysteine	32.33	118.17
Isoleucine	101.75	428.40
Leucine	243.17	870.03
Phenylalanine	146.14	540.99
Tryptophan	55.02	128.90

nd: non detectable

Table S2. Fatty acid profile of cocoa pod and cocoa shell (mg/100g DM) Results are the means of three replicates with standard deviation below 5%.

Fatty acid (% of fatty acids)	CPH	CBS
C10:0	0.027	0.000
C12:0	0.484	0.029
C14:0	1.732	0.140
C15:0	0.258	0.057
C16:0	29.921	31.112
C16:1n7	0.134	0.000
C16:1n9	0.000	0.314
C17:0	0.293	0.258
C17:1n7	0.102	0.036
C17:1n8	0.000	0.082
C18:0	25.213	27.184
C18:1n9 oleic	22.991	34.327
C18:2n6 linoleic	15.031	4.674
C18:2n6t	0.072	0.000
C18:3n6	0.053	0.023
C19:0	0.0058	0.014
C18:3n3	0.972	0.253
C20:0	1.026	0.855
C20:1n9	0.070	0.058
C20:2n6	0.048	0.009
C21:0	0.017	0.015
C20:3n3	0.104	0.019
C20:4n6 arachidonic	0.036	0.000
C20:5n3 EPA	0.046	0.000
C22:0	0.448	0.212
C22:1n9 erucic	0.069	0.000
C22:2n6	0.025	0.000
C23:0	0.204	0.000
C24:0	0.567	0.331

EPA: Eicosapentaenoic acid