SUPPLEMENTARY INFORMATION

- 2 An analysis of variance design was used in all cases. 3 X 2 X 2 with the last as a repeated
- 3 measures (Capsule Placebo / Electrolyte X Drink No drink / Plain water / Coloured water)
- 4 X Time Baseline / End study).

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6 Table S1. The influence of interventions on Agreeableness

Mood subscale	Effect/Interaction	ANOVA
Agreeableness	Time	F(1,154) = 3.042, p = 0.083
	Time X Capsule	F(1,154) = 1.928, p = 0.167
	Time X Drink	F(2,154), = 0.417, p = 0.660
	Time X Capsule X Drink	F(2,154) = 4.510, p = 0.012
	Capsule	F(1,154) = 1.928, p = 0.167
	Drink	F(1,154) = 3.599, p = 0.030
	Capsule X Drink	F(1,154) = 0.235, p = 0.791

7 Table S2. The influence of interventions on Composure

Mood subscale	Effect/Interaction	ANOVA
Composure	Time	F(1,157) = 1.715, p = 0.192
	Time X Capsule	F(1,157) = 6.946, p = 0.009
	Time X Drink	F(2,157) = 1.503, p =226
	Time X Capsule X Drink	F(2,157) = 3.821, p = 0.024
	Capsule	F(1,157) = 0.010, p = 0.910
	Drink	F(2,157) = 3.074, p = 0.049
	Capsule X Drink	F(2,157) = 3.752, p = 0.026

	Mood subscale	Effect/Interaction	ANOVA
	Clearheadedness	Time	F(1,155) = 0 .865, $p = 0.354$
		Time X Capsule	F(1,155) = 0.193, p = 0.661
		Time X Drink	F(2,155) = 3.440, p = 0.035
		Time X Capsule X Drink	F(2,155) = 0.498, p = 0.609
		Capsule	F(1,155) = 0.467, p = 0.496
		Drink	F(2,155) = 0.322, p = 0.718
		Capsule X Drink	F(2,155) = 1.333, p = 0.267
10 11 12			
13	Table S4. The influence of	interventions on Elation	
	Mood subscale	Effect/Interaction	ANOVA
	Elation	Time	<i>F</i> (1,158) = 11.160, <i>p</i> <0 .001
		Time X Capsule	F(1,158) = 3.738, p = 0.055
		Time X Drink	F(2,158) = 0.135, p = 0.873
		Time X Capsule X Drink	F(2,158) = 1.410, p = 0.247
		Capsule	F(1,158) = 0.069, p = .0793
		Drink	F(2,158) = 0.568, p = 0.558
		Capsule X Drink	F(2,158) = 2.243, p = 0.110
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Table S5. The influence of interventions on Confidence

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Mood subscale	Effect/Interaction	ANOVA
Confidence	Time	F(1,153) = 2.360, p = 0.127
	Time X Capsule	F(1,153) = 0.462, p = 0.498
	Time X Drink	F(2,153) = 1.010, p = 0.366
	Time X Capsule X Drink	F(2,153) = 0.701, p = 0.495
	Capsule	F(1,153) = 0.600, p = 0.440
	Drink	F(2,153) = 4.681, p = 0.011
	Capsule X Drink	F(2,153) = 1.314, p = 0.272

22 Table S.6 The influence of interventions on Energy

Mood subscale	Effect/Interaction	ANOVA
Energy	Time	<i>F</i> (1,156) = 18.460, <i>p</i> < 0.001
	Time X Capsule	F(1,156) = 0.002, p = 0.964
	Time X Drink	$F(1,156) = 0.703, \ p = 0.497$
	Time X Capsule X Drink	F(1,156) = 0.228, p = 0.796
	Capsule	F(1,156) = 1.417, p = 0.263
	Drink	F(1,156) = 2.545, p = 0.082,
	Capsule X Drink	F(1,156) = 6.384, p = 0.002.

 ${\bf Table~S.7~THE~EFFECT~OF~THE~INTERVENTIONS~UPON~RESPONSE~TIMES~DURING}$

29 THE ARROW FLANKERS TASK

Cognitive task	Effect/Interaction	ANOVA
Congruent	Time	F(1, 141) = 10.764, p = 0.001
	Time X Drink	F(2,142) = 1.579, p = 0.223
	Time X Capsule	F(1,142) = 2.903, p = 0.089
	Time X Drink X Capsule	F(2,142) = 0.007, p = 0.993
	Time	F(2, 141) = 4.165, p = 0.017
	Capsule	F(2,142) = 2.618, p = 0.072
	Drink X Capsule	F(2,142) = 1.437, p = 0.241
Cognitive task	Effect/Interaction	ANOVA
Incongruent	Time	F(1, 141) = 10.764, p = 0.001
21100110	Tille	I(1, 141) - 10.704, p - 0.001
	Time X Drink	F(2,141) = 0.339, p = 0.713
		,
	Time X Drink	F(2,141) = 0.339, p = 0.713
g	Time X Drink Time X Capsule	F(2,141) = 0.339, p = 0.713 F(1,141) = 2.293, p = 0.132
	Time X Drink Time X Capsule Time X Drink X Capsule	F(2,141) = 0.339, p = 0.713 F(1,141) = 2.293, p = 0.132 F(2,141) = 0.114, p = 0.132
	Time X Drink Time X Capsule Time X Drink X Capsule Drink	F(2,141) = 0.339, p = 0.713 F(1,141) = 2.293, p = 0.132 F(2,141) = 0.114, p = 0.132 F(2,141) = 4.165, p = 0.017
	Time X Drink Time X Capsule Time X Drink X Capsule Drink Capsule	F(2,141) = 0.339, p = 0.713 F(1,141) = 2.293, p = 0.132 F(2,141) = 0.114, p = 0.132 F(2,141) = 4.165, p = 0.017 F(1,141) = 1.106, p = 0.295,

Cognitive task Neutral Trials	Effect/Interaction Time	ANOVA (F(1,141) = 13.877, p <.001
	Time X Drink	(F(2,141) = 0.831, p = 0.438
	Time X Capsule	F(1,141) = 6.26, p = 0.013
	Time X Drink X Capsule	(F(2,141) = 0.074, p = 0.929
	Drink	(F(2,141) = 5.606, p = 0.005
	Capsule	(F(1,141) = 1.576, p = 0.211
	Drink X Capsule	(F(2,141) = 1.670, p = 0.192

Table S8. THE EFFECT OF THE INTERVENTION UPON RESPONSE TIMES DURING

39 THE SERIAL SEVENS TASK

Cognitive task	Effect/Interaction	ANOVA
Serial sevens	Time	<i>F</i> (1,154) = 43.030, <i>p</i> < .001
	Time X Drink	F(2,154) = 1.253, p = 0.289
	Time X Capsule	F(2,154) = 0.362, p = 0.548
	Time X Drink X Capsule	F(2,154) = 4.303, p = 0.046
	Drink	F(2,154) = 1.538, p = 0.218
	Capsule	F(1,154) = 0.025, p = 0.874
	Drink X Capsule	F(2,154) = 1.841, p = 0.162

41 Table S.9 THE EFFECT OF THE INTERVENTION UPON EPISODIC MEMORY

Mood subscale	Effect/Interaction	ANOVA
	Time	F(1,165)=8.915, p = 0.003
	Time X Drink	F(2,165) =2.262,p =0 .107
	Time X Capsule	F(1,165) = 0.208, p = 0.649
	Time X Capsule X Drink	F(2,165)= 0.877, p =0.417
	Memory type	F(1,165) = 90.995, p.001
	Memory type X Drink	F(2,165) = 0.617, p=0.541
	Memory type X Capsule	F(1,165) = 1.747,p=0.188
	Memory type X Capsule X Drink	F(2,165)=0.876, p =0.418
	Time X Memory type	F(1,165)=12.082, p=.001
	Time X Memory type X Drink type	F(2,165) = 1.014, p=.365
	Time X Memory type X Capsule	F(1,165) = 0.647, p = .413
	Time X Memory type X	F(2,165) = 0.046, p = .955
	Drink type X Capsule Capsule	<i>F</i> (1,165) = 0.454, <i>p</i> = .636
	Drink	F(1,165) =0 .009, p = .923
	Capsule X Drink	F(1,165) = 0.800, p = .451

Note. Type of memory is whether recall was immediately or after 20 minutes

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47 Table S.10 THE EFFECT OF THE INTERVENTION UPON REACTION TIMES

Lamp	Effect/Interaction	ANOVA
1	Time	(F(1, 160) = 0.542, p = 0.463)

7 of 8

1	Time X Drink	(F(2, 160) = 0.118, p = 0.889)
1	Time X Capsule	(F(1, 160) = 1.197, p = 0.275)
1	Time X Capsule X Drink	(F(2, 160) = 0.098, p = 0.907)
2	Time	(F(1, 160) = 1.393, p = 0.240)
2	Time X Drink	(F(2, 160) = 0.601, p = 0.549)
2	Time X Capsule	(F(1, 160) = 0.724, p = 0.384)
2	Time X Capsule X Drink	(F(2, 160) = 0.328, p = 0.721)
4	Time	(F(1, 160) = 0.498, p = 0.482)
4	Time X Drink	(F(2, 160) = 1.104, p = 0.334)
4	Time X Capsule	(F(1, 160) = 4.097, p = 0.045)
4	Time X Capsule X Drink	(F(2, 160) = 0.409, p = 0.605)
8	Time	(F(1, 153) = 0.013, p = 0.653)
8	Time X Drink	(F(2, 153) = 1.203, p = 0.398)
8	Time X Capsule	(F(1, 153) = 0.483, p = 0.962)
8	Time X Capsule X Drink	(F(2, 153) = 3.938, p = 0.005)

8 of 8

