



SUPPLEMENTARY INFORMATION

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

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		

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

Table S3. The influence of interventions on Clearheadness

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 $F(2,155) = 3$	
	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

Table S4. The influence of interventions on Elation

Mood subscale	Effect/Interaction	ANOVA		
Elation	Time	F(1,158) = 11.160, p < 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		

Table S5. The influence of interventions on Confidence

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

Table S.6 The influence of interventions on Energy

Mood subscale Effect/Interaction

Mood subscale	Effect/Interaction	ANOVA
Energy	Time	F(1,156) = 18.460, p < 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.

Table S.7 THE EFFECT OF THE INTERVENTIONS UPON RESPONSE TIMES DURING THE ARROW FLANKERS TASK

Cognitive task	Effect/Interaction	ANOVA			
Congruent	Time	<i>F</i> (1, 141) = 10.764, <i>p</i> =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			
Cognitive task Incongruent	Effect/Interaction Time	ANOVA $F(1, 141) = 10.764, p = 0.001$			
	Time	F(1, 141) = 10.764, p = 0.001			
	Time Time X Drink	F(1, 141) = 10.764, p = 0.001 F(2,141) = 0.339, p = 0.713			
	Time X Drink Time X Capsule	F(1, 141) = 10.764, p = 0.001 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(1, 141) = 10.764, p = 0.001 $F(2,141) = 0.339, p = 0.713$ $F(1,141) = 2.293, p = 0.132$ $F(2,141) = 0.114, p = 0.132$			
	Time X Drink Time X Capsule Time X Drink X Capsule Drink	F(1, 141) = 10.764, p = 0.001 $F(2,141) = 0.339, p = 0.713$ $F(1,141) = 2.293, p = 0.132$ $F(2,141) = 0.114, p = 0.132$ $F(2,141) = 4.165, p = 0.017$			

Cognitive task Neutral Trials	Effect/Interaction Time	ANOVA (<i>F</i> (1,141) = 13.877, <i>p</i> <.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 THE SERIAL SEVENS TASK

Cognitive task Serial sevens	Effect/Interaction Time	ANOVA $F(1,154) = 43.030, p < .001$	
	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	

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

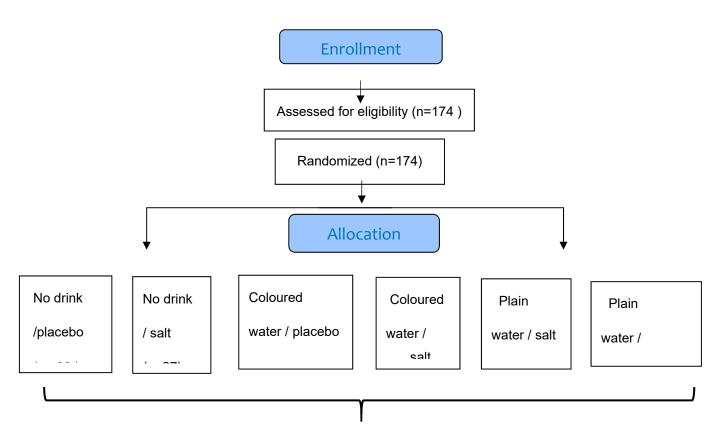
Mood subscale	Effect/Interaction	ANOVA	
	Time	<i>F</i> (1,165)=8.915, <i>p</i> = 0.003	
	Time X Drink	F(2,165) =2.262,p =0 .107	
	Time X Capsule	F(1,165) = 0.208, p = 0.649	
	Time X Capsule X Drink	F(2,165)= 0.877, p =0.417	
	Memory type	F(1,165) = 90.995, p.001	
	Memory type X Drink	F(2,165) = 0.617,p=0.541	
	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	<i>F</i> (1,165) =0 .009, <i>p</i> = .923	
	Capsule X Drink	F(1,165) = 0.800, p = .451	

Note. Type of memory is whether recall was immediately or after $20\ \text{minutes}$

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)
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)





Discontinued intervention (n=0)

Analysis

Outliers

Agreeable n=0	n=4	n=2	n=0	n=1	n=2		
Composed n=1	n=0	n= 1	n=1	n=1	n= 3		
Clearheaded n=2	n=0	n=0	n=3	n=1	n= 2		
Energetic n= 0	n=1	n=2	n=2	n=0	n=2		
Elated n= 1	n= 0	n= 1	n=1	n=2	n= 3	Confident n=3	n= 2
n=0 n=2	n=1	n=2					