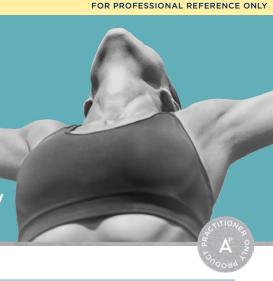
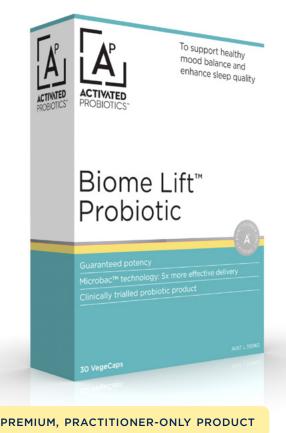


# Biome Lift™ Probiotic

To support healthy mood balance and enhance sleep quality





Natural mood support

Clinically trialled probiotic product

Microbac™ technology: 5x more effective delivery

**Guaranteed potency** 

# **INDICATIONS**

- · Supports healthy mood balance
- Enhances sleep quality
- May help reduce cognitive fatigue

# **FORMULATION**

Lactobacillus plantarum LP01 (LMG P-21021)	1 BLB*
Lactobacillus rhamnosus LR06 (DSM 21981)	1 BLB*
Bifidobacterium longum 04 (DSM 23233)	1 BLB*
Lactobacillus fermentum LF16 (DSM 26 DSM 26956)	1 BLB*
Total live bacteria	4 BLB*

\*BLB = Billion Live Bacteria

# 30 Vegecaps

19.4mm AUST L 315960

# **DIRECTIONS FOR USE**

Adults: take 1 capsule daily (with or without food), or as directed by your healthcare practitioner.

# NO ADDED

GMOs, wheat, gluten, dairy, lactose, fructose, yeast, nuts, seeds, peanut, soy, egg, fish, shellfish, or animal derivatives. No artificial colours, flavours, sweeteners, or preservatives.







**PROBIOTIC PROMISE** 





ONE A DAY **FORMULATION** 

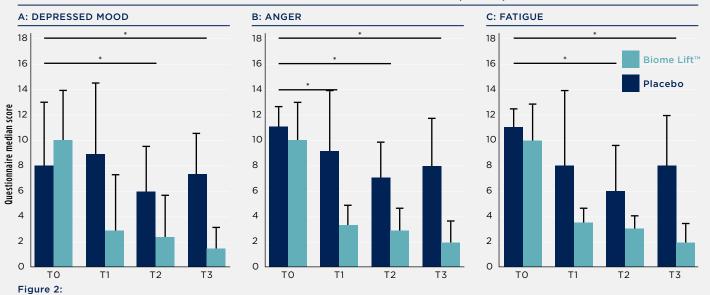




by coating them with a layer of plant-derived lipid. This protects the bacteria from the strong acid in



#### BIOME LIFT™ PROBIOTIC SIGNIFICANTLY REDUCES MEASURES OF DEPRESSED MOOD, ANGER, AND FATIGUE



Median Profile of Mood States (POMS) subscale scores from the participants in the Biome Lift™ group and the placebo group. Error bars represent 95% confidence interval. Asterisks indicate within-group significant differences (Bonferroni corrected p<0.017)8.

#### THE MICROBIOTA-GUT-BRAIN AXIS

The gut-brain axis describes the bidirectional communication between the gut and the brain, via the autonomic nervous system, the enteric nervous system, the neuroendocrine system, and the immune system<sup>1</sup>. Recently, this concept has been extended to encompass the complex interrelationship between the gut microbiota (and their metabolites) and this axis, which collectively forms the microbiota-gut-brain axis. The gut microbiota have the capacity to affect the function of the brain, modulating cognition, behavior and emotional regulation, through the production of neurotransmitters, including serotonin and Y-aminobutyric acid (GABA), and other neuroactive substances, such as short-chain fatty acids (SCFAs)<sup>2</sup>.

#### PRECLINICAL AND CLINICAL STUDIES

Numerous preclinical studies conducted in rodents have demonstrated that the absence of, or alterations to the gut microbiota affects the hypothalamic-pituitary-adrenal (HPA) axis response to stress<sup>3</sup>, and behavioural responses, including anxiety and depressive-like behaviors<sup>1</sup>. On the basis of these findings, a number of clinical trials have sought to investigate whether probiotics could have a beneficial effect on mood, cognition, and behaviour in humans<sup>4,5,6</sup>, with a recent meta-analysis finding a statistically significant improvement in psychological symptoms - including perceived stress, depressed mood, and anxious feelings - in healthy individuals who received probiotic supplements, compared to placebo<sup>7</sup>.

# BIOME LIFT™ PROBIOTIC CLINICAL TRIAL

A recently published randomised, double-blind, placebo-controlled trial conducted in Italy investigated the effect of *Biome Lift*<sup>TM</sup> *Probiotic* on various aspects of mood, personality dimensions, and sleep quality<sup>8</sup>. The study recruited 38 healthy adults, and was conducted over a period of 9 weeks, which included a 6 week intervention period, followed by a 3 week washout period. During the intervention period, the participants in the experimental group received a sachet of the probiotic product (*Biome Lift*<sup>TM</sup> *Probiotic*), while the participants in the control group received a placebo sachet, which contained maltodextrin only. A variety of psychological tests were administered at baseline (T0), 3 weeks (T1), 6 weeks (T2), and after the 3 week washout period (T3).

# RESULTS

A significant time effect for the participants in the *Biome Lift*<sup>TM</sup> *Probiotic* group was found for the following subscale scores:

- Depressed mood state (X<sup>3</sup>; 12.43, p=0.006): a statistically significant reduction in depressed mood state was found at 6 weeks compared to baseline (Z = -2.596, p = 0.009, effect size = -0.433). The effect was maintained after the 3 week washout period compared to baseline (Z = -2.452, p=0.014, effect size = -0.409)
- Anger-hostility (X<sup>2</sup><sub>3</sub>: 17.52, p=0.001): a statistically significant reduction in anger-hostility
  was found at 3 weeks compared to baseline (Z = -2.695, p = 0.007, effect size = -0.449), and at 6 weeks
  compared to compared to baseline (Z = -2.411, p = 0.016, effect size = -0.402). The effect was maintained
  after the 3 week washout period compared to baseline (Z = -2.921, p = 0.003, effect size = -0.487)
- Fatigue (X<sup>2</sup><sub>3</sub>: 11.75, p=0.008): a statistically significant reduction in fatigue was found at 6 weeks compared to baseline (Z = -2.802, p = 0.005, effect size = -0.467). This effect persisted after the washout period, with lower scores recorded at T3, compared to baseline (Z =-2.556, p = 0.011, effect size = -0.426)
- Sleep quality (X<sup>2</sup><sub>3</sub>: 12.16, p=0.007): a statistically significant improvement in sleep quality was found at 6 weeks compared to baseline (Z = -2.820, p = 0.005, effect size = -0.470)

# CONCLUSION

On the basis of these clinical trial results,  $Biome\ Lift^{m}\ Probiotic$  appears to be an effective therapeutic tool for improving several aspects of mood, and sleep quality in healthy adults.

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