

Pinorox[®]

(Himalayan Pine Bark Extract)

Human Clinical Trials:

It is clinically evaluated in
"BOOSTING PHYSICAL
PERFORMANCES"

- Physical Performances improved
- Increases muscle strength
- Reduces cramping & muscular pain
- Promote Cardio-respiratory fitness
- Enhancement in endurance capacity



India's first, Clinically tested and
fssai approved Pine Bark Extract

PINE BARK EXTRACT: HEALTH BENEFITS

- Potent anti-oxidant
- Aerobic & Anaerobic performance improved
- Improves muscle strength
- Anti-inflammatory

APPLICATIONS:

- Health Supplement
- Ayurvedic Products
- Cosmetics & Skin Care Products

DOSAGE:

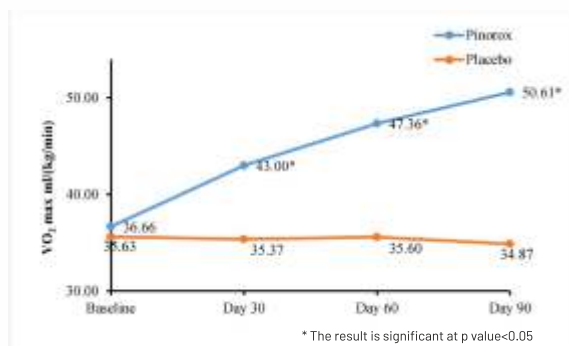
200 mg Pinorox, once in a day.

DELIVERY FORMAT:

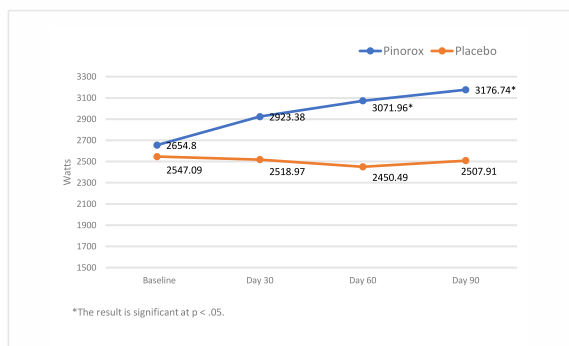
- Powder
- Capsules
- Tablets

Human Clinical Trials : Double-blind placebo-controlled studies confirms its efficacy in boosting physical performance

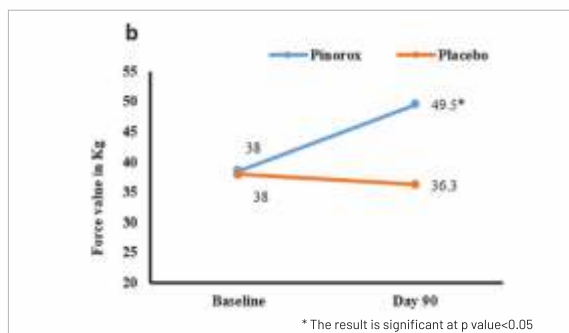
- Improved muscle strength
- Reduces cramping & muscular pain
- Enhancement in endurance capacity



****Bruce Protocol Treadmill Test:** VO_2 max is the maximum rate of oxygen consumption measured during incremental exercise i.e. exercise of increasing intensity. Maximal oxygen consumption reflects cardiorespiratory fitness & endurance capacity in exercise performance. Pinorox group compare to Placebo group showed a remarkable increase in an endurance capacity while performing physical activity.



Wingate Anaerobic Test (WANT): WANT evaluates the anaerobic power of the lower body. The anaerobic power basically contributes in developing strength, speed, power and muscle mass especially in non-endurance physical activities. Anaerobic capacity is the total amount of energy from the anaerobic (without oxygen) energy systems that is the combined amount of output for the ATP, phosphocreatine and lactic acid systems. Pinorox group compare to Placebo group showed a remarkable increase in an anaerobic capacity while performing physical activity.



Muscle grip strength (LH-left hand) value using handheld dynamometer between Pinorox® and Placebo groups in normal healthy and sports subjects. The results show that Pinorox positively affected the isometric strengths of hands and forearm muscles.

Mode of action:

- Pinorox improves maximal oxygen uptake during physical activity, resulting in better endurance.
- Pinorox helps in reducing overall anaerobic fatigue, due to which overall anaerobic capacity is increased.

Studies conducted:

- **Human clinicals trial** (double blinded, placebo compared) show that Pinorox boosts aerobic and anaerobic physical performance of healthy and athletic or sport subjects
- **Cell Line Study:** Pinorox exhibited a promising Modulatory activity on Glutathione (GSH) in HaCaT cells against Oxidative stress induced by Hydrogen Peroxide at 250 µg/mL concentration with 140% activity and at 500 µg/mL concentration with 182% activity
- **Safety study:** Pre-clinical toxicity studies conducted

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AMBE PHYTOEXTRACTS PVT. LTD.



Corporate Office:-

A - 144, Sector - 63, NOIDA, Uttar Pradesh - 201301 (INDIA)

Tel: +91-120-4505353, E-mail: info@ambe-group.com

Website: www.ambe-group.com

MANUFACTURING UNIT

Pauri Garhwal,

Uttarakhand - 246276 (INDIA)

SIIDCUL, Haridwar,

Uttarakhand - 249403 (INDIA)