



# PATHFINDER

PATHFINDER-UK.CO

# N-PURE

## NUTRIENT

A complete nutrient complex especially developed for fermenting refined sugar bases.

### PRODUCT DESCRIPTION & FUNCTION

N-Pure Nutrient provides all essential nutrients required by yeast for production of FMB's bases fermented from refined sugars such as glucose, dextrose, sucrose, and invert sugar syrup. N-Pure Nutrient can be used to ferment across a wide range of alcohol levels up to 14 % ABV or above.

Unlike malt and grain substrates which are nutritionally rich, refined sugar substrates, are completely devoid of essential nutrients, which makes use of supplements essential for fermentation. N-Pure Nutrient includes a high level of assimilable nitrogen from a urea-free source, along with phosphate, magnesium, B vitamins and other essential micronutrients including zinc and calcium.

N-Pure Nutrient contains only chemically defined ingredients and does not contain any unrefined nutrient

sources, such as inactive yeast, which can negatively impact the flavour and aroma of fermented FMB bases.

When used in conjunction with an appropriate yeast strain, N-Pure Nutrient will help ensure reliable and complete fermentation of a base with a clean and neutral flavour profile (note that organoleptic properties of the fermented base will also depend on the quality and type of yeast used).

### TECHNICAL CHARACTERISTICS

<b>Appearance</b>	White crystalline powder
<b>Total Nitrogen (YAN)</b>	Minimum 9 %
<b>Total P<sub>2</sub>O<sub>5</sub></b>	Minimum 30 %
<b>Lead</b>	< 3 mg/kg
<b>Arsenic</b>	< 3 mg/kg

## DOSAGE & APPLICATION

Pre-mix N-Pure Nutrient with 10x its weight of warm water at 30-40°C and agitate for 5-10 minutes to dissolve before transferring the solution into the fermentation media.

The dosage should be adjusted according to target % ABV - suggested guide dosages are provided in the following table.

### Suggest guide dosages for N-Pure Nutrient:

<b>Target ABV for fermentation:</b>	5%	8%	10%	12%	14%
<b>N-Pure Nutrient dosage:</b>	1.5 g/L	2.0 g/L	2.4 g/L	2.9 g/L	3.2 g/L

It is strongly recommended that sufficient trials are undertaken using this product prior to use in a finished ready to drink product. Dosages can be optimised through bench-top trials according to your specific product and process as required.

This product contains granular products of different sizes that will settle out during transportation. To ensure a homogeneous product, it is recommended that a full pack is used for your fermentation. If a part bag is used, homogeneity can be increased by thorough mixing of the pack prior to use. Full homogeneity cannot be guaranteed if part bags are used.

## PACK SIZES

1000g bags, or 25kg poly-lined paper sacks.

## SAFETY

This material is non-hazardous when used as directed. SDS available on request.

## STORAGE

Store in a cool, dry place away from direct sunlight. When stored correctly this product will have a shelf life of 24 months. After opening, re-seal tightly and store in a cool, dry place away from direct sunlight.