Gin TONIQTM

MOISTURISING | HYDRATING

Gin TONIQ $^{\text{TM}}$ is an upcycled botanical active made from gin distillery leftovers. Combining upcycled grain ferment & vegetable glycerine, Gin TONIQ $^{\text{TM}}$ quenches thirsty skin by offering long-lasting hydration & delivers three times more moisture than glycerine alone.

MADE FROM

UPCYCLED GRAIN FERMENT

FROM GIN PRODUCTION

WE CAN

UPCYCLE 4 LITRES

OF GIN DISTILLERY LEFTOVERS FROM EVERY BOTTLE OF GIN **IDEAL FOR**

LEAVE-ON SKINCARE

APPLICATIONS



Gin TONIQTM

A ZERO WASTE BOTANICAL ACTIVE FOR LONG-LASTING HYDRATION & SKIN MOISTURISATION

Gin TONIQ[™] is an upcycled botanical active that delivers long-lasting hydration and moisturisation. Made from a by-product of gin distillation, it combines upcycled grain ferment and vegetable glycerine; by working in synergy, these ingredients help to lock in moisture, for longer. It is proven to deliver three times more moisture than glycerine alone and helps to protect the skin from dehydration.

Additionally, Gin TONIQ[™] has been shown to reduce inflammatory marker IL-8, making it suitable for soothing and calming skincare products. Since grains are abundant in phenolic acids, minerals and cabohydrates, Gin TONIQ[™] can also deliver an antioxidant boost and help maintain skin health. Overall, Gin TONIQ[™] boosts skin's moisture levels, combats dehydration & promotes a calmer, healthier complexion.

BENEFITS

- Locks in 3 X MORE moisture than glycerine
- Moisturises skin for longer than glycerine (up to 8 hours)
- · Helps to protect skin from dehydration
- · Calms & soothes: More than 10% IL8 reduction
- Supports skin health; a source of phenolic acids & antioxidants (such as ferulic acid), minerals & carbohydrates
- · Made from a by-product of gin production
- Made in partnership with a zero waste brewery
- Can be used in a wide variety of skincare & body care applications including daily care products

A NEW APPROACH

As the name might suggest, Gin TONIQ $^{\text{TM}}$ is made from a by-product of gin production. Following distillation, we upcycle the leftover fermented grain (which is packed full of valuable nutrients).



INCI Name: Saccharomyces/Barley Seed Ferment Filtrate 50% & Glycerine 50%

Appearance: Hazy pale brown liquid

Suggested Use Level: 1 - 5%

Suggested Application: Skincare (Face & Body)

Degree of Naturality ISO 16128: NOI1 | NI1

COSMOS: Conforms
NaTrue: Certified

Country of Origin: UK





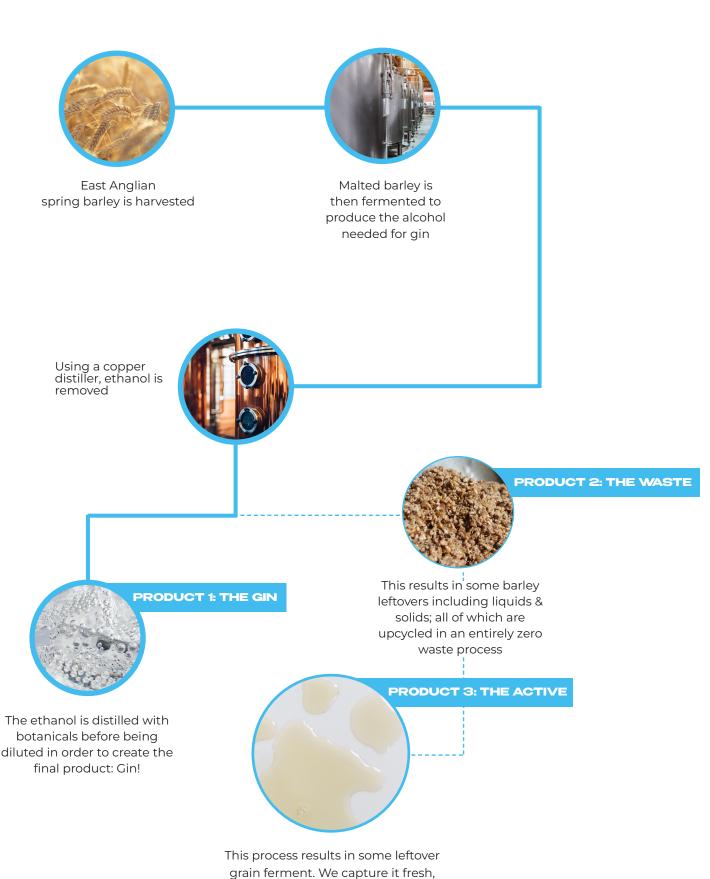








Gin TONIQ™ UPCYCLING PROCESS



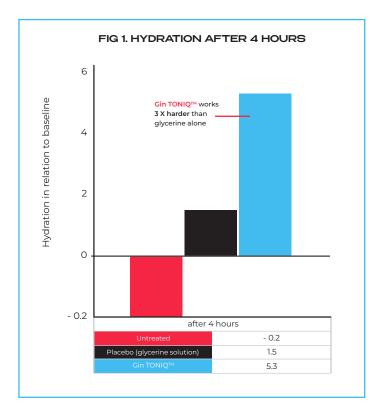
straight from distillation, and combine with glycerine to eliminate the need for any preservative. The result? A natural, sustainable, high-performance botanical active: **Gin TONIQ**TM

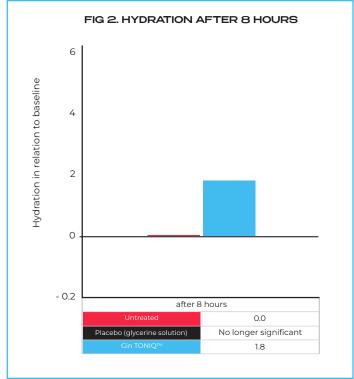
TONIQ™

MOISTURISATION STUDY

Skin hydration was assessed in vivo using corneometry. Five measurements were performed on the inner forearm of 20 subjects. We compared 5% Gin TONIQTM with a glycerine blend (placebo) and an untreated control. Looking at figure 1, **Gin TONIQTM was proven to deliver three times more moisture than glycerine.**

Figure 2 shows that **Gin TONIQ[™] continues to deliver moisturisation after 8 hours,** whereas the placebo does not. Therefore, Gin TONIQ[™] significantly increases skin hydration after a single application and has an 8 hour moisturisation effect, outperforming glycerine.





PHENOLIC

ACIDS

Fermented grains contain a large number of phenolic acids including caffeic acid, p-coumeric acid and hydroxycinnamic acid (1). Ferulic acid is also present in cell walls of grains; a phenolic compound that acts as a potent free radical scavenger and antioxidant. Ferulic acid is known to have a protective role for the main skin structures: keratinocytes, fibroblasts, collagen, elastin (2).

POSTBIOTIC

Fermented ingredients have rapidly grown in popularity in recent years, largely due to their numerous skin benefits. People have used fermentation for thousands of years with the earliest evidence of fermenting beer dating back over 13,000 years ago. The process uses microorganisms to breakdown the larger natural molecules into smaller ones that are more easily absorbed and yields skin-friendly bioactive compounds like postbiotics.

MINERALS & CARBOHYDRATES

Fermented grain is typically abundant in carbohydrates, which are known to help lock in moisture; mainly dextrin, which is a polysaccharide obtained from starch (3). Known as a texture enhancer, dextrin may also provide skin-soothing properties that may help to alleviate problematic skin (4). Gin TONIQ™ also contains valuable minerals such as calcium, copper, iron, manganese, potassium and sodium, which play an important role in maintaining skin health.





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REFERENCES