

The background of the slide is a high-angle, aerial photograph of a vast, arid desert landscape. The terrain is characterized by a large, circular, crater-like depression in the center, surrounded by concentric ridges and valleys. The colors are predominantly shades of brown, tan, and beige, with some darker patches of rock or sand. The text 'High Performance Group' is overlaid in the center of the image in a white, serif font with a slight shadow effect.

# High Performance Group

**HPG Co.,Ltd.**

# 安定化した高濃度カテキン（EGCg）水溶液

Stabilized high concentration catechin (EGCg) aqueous solution

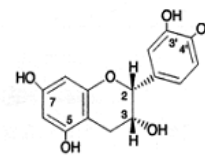
# カテキンの種類

Types of catechin

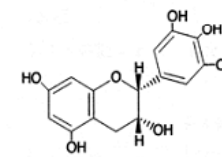
Percentage of major catechins in green tea extract

## 緑茶抽出液中の主なカテキンの割合

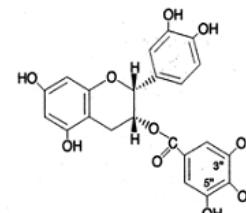
カテキンの種類 Types of catechin	割合 (%)
(-)Epicatechin (EC) エピカテキン	6.4
(-)Epigallocatechin (EGC) エピガロカテキン	19.2
(-)Epicatechin gallate (ECg) エピカテキンガレート	13.7
(-)Epigallocatechin gallate(EGCg) エピガロカテキンガレート	59.1



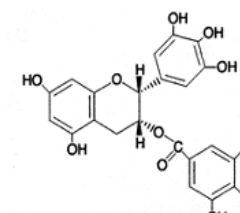
エピカテキン  
Epicatechin  
(EC)



エピガロカテキン  
Epigallocatechin  
(EGC)



エピカテキンガレート  
Epicatechin gallate  
(ECg)



エピガロカテキンガレート  
Epigallocatechin gallate  
(EGCg)

# カテキンの弱点

Catechin's Weaknesses

抗酸化力が強い

Because of its strong antioxidant power

●カテキンは水溶液の中では溶存酸素と結合し容易に酸化してしまうため、安定化させることが難しい

Since catechins bind to dissolved oxygen in an aqueous solution and oxidize easily, difficult to stabilize

●カテキンは安定化のために化体学物質を使用して誘導化するのが一般的で、体内に取り入れることが難しかった

Catechins were generally induced using chemical substances for stabilization and were difficult to incorporate into the body



2つの問題の  
解決に成功した

Succeeded in solving two problems.

## 今回の製品の特徴

Characteristics of this product

- 時間が経過しても、**残存率が72%**と大半が劣化しないこと

The product does not degrade at a residual rate of 72% over time.

- 10,000ppm**と高濃度で安定化しているため希釈が容易なこと

This product is stabilized at a high concentration of 10,000 ppm, so it is easy to dilute

- 厚生労働省から**食品添加物として認可された成分のみ**で作られている

This product is made only with ingredients approved as food additives by the Ministry of Health, Labour and Welfare.

- 効果を発揮する段階での濃度では、**無味・無臭、無色・透明**なので、汎用性に優れていること

This product is excellent in versatility because it is tasteless, odorless, colorless and transparent at concentrations at the stage of its effectiveness.

たとえば

For example



喉や鼻粘膜に作用する  
スプレータイプ

Spray type acting on the throat  
and nasal mucosa



飲みやすい  
タブレットタイプ

Tablet type licking  
in the oral cavity

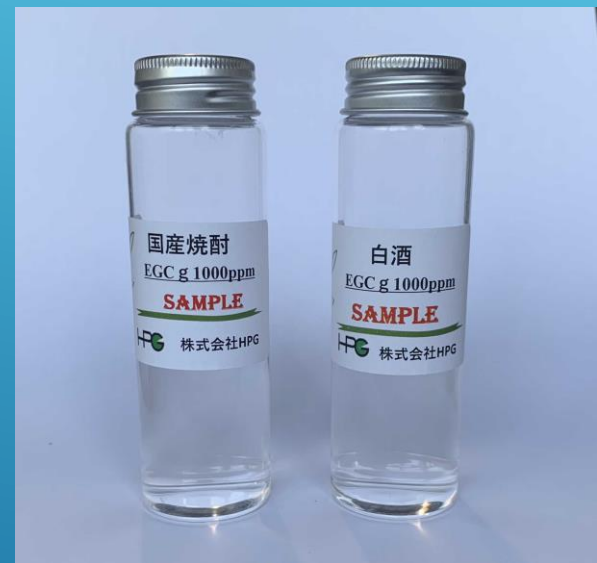


## 既存の飲料製品に混ぜても、効果が保たれる

Mix with existing beverage products to maintain their effectiveness



清涼飲料水  
soft drink



アルコール飲料  
Alcoholic beverages

# こんな場面で、お役にたきたい

We want to be useful in these situations.

もっともウイルスに接触する危険性が高い

People who have the highest risk of contact with the virus

## 医療従事者

Healthcare Professionals

ウイルス弱者と呼ばれる

Those who are least resistant to viruses

## 高齢者 & 高齢者施設

Facilities for the Elderly and the Elderly

ワクチン接種が難しいと言われる

People who are difficult to vaccinate

## 幼稚園・保育園児

Kindergarten and Nursery School Children

ワクチン接種が遅れている

Countries where vaccination is lagging behind

## 発展途上国

developing country