

QUICK KONJAC

Natural thickener

Contents

- 1. Quick Konjac properties
- 2. Viscosity tolerance
- 3. Synergy
- 4. Applications

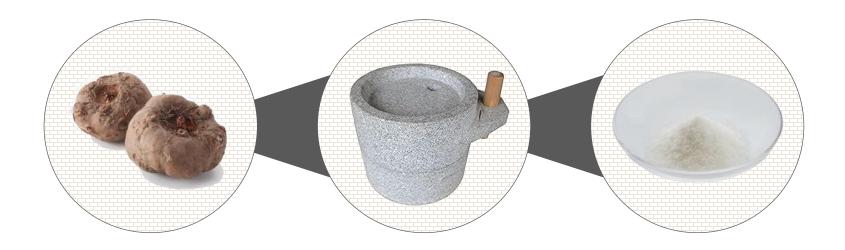
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Process of regular Konjac

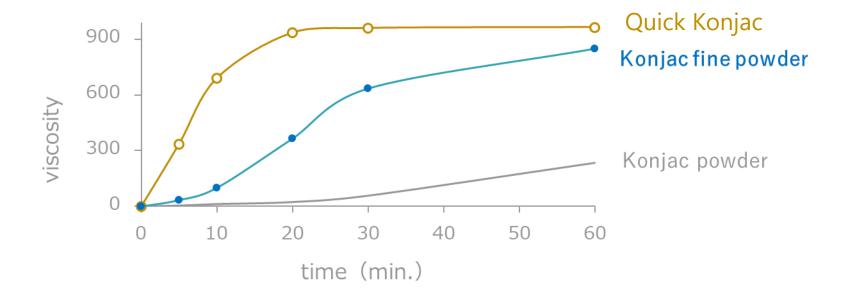
Obtention process by pulverizing Konjac potato



The traditional manufacturing process was very simple.

Dissolution

Konjac powder dissolves very slowly into liquid



A slow dissolution speed leads to a low risk of lump. Refined powder can be obtained by separating the starch from the Konjac powder.

Gelling

Form a gel under alkaline conditions



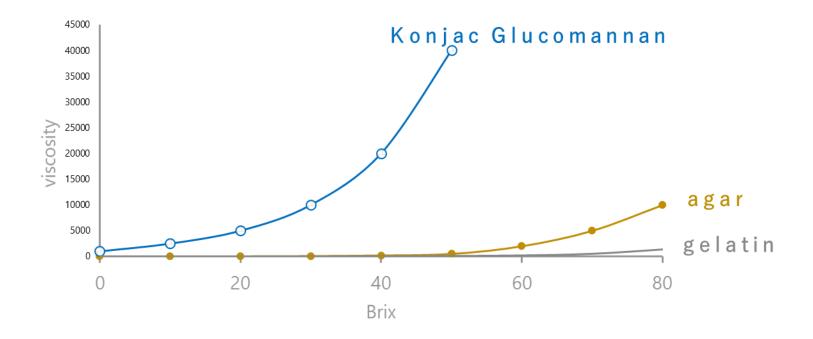
The gel formed is heat stable.

Mechanism

The gel forming process at a molecular scale

Mechanism

Viscosity VS Brix

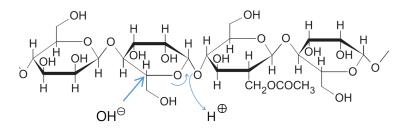


Shows very high viscosity even in high BRIX conditions.

Caution about regular Konjac

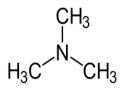
General Konjac gels are not resistant against acid

Glucomannan carries its own enzyme which disassemble itself and lose viscosity



General Konjac powders have a unique smell

Konjac powder has a unique and strong smell alike raw fish, caused by the action of the disassembling protein



Trimethylamine

General Konjac have a high number of bacteria



Due to 2 things: the raw material is harvested from the ground & the manufacturing process is very simple

Heat or ethanol treatment is necessary to control the bacteria number







Low Smell



Low amount of Bacteria

Features VS Xanthan Gum

REGULAR KONJAC

- 1 Water soluble
- 2 Low risk of Lump
- **B** High Viscosity
- 4 Low Stringiness

QUICK KONJAC

- **1** Water soluble
- Low risk of Lump
- **3** High Viscosity
- 4 Low Stringiness

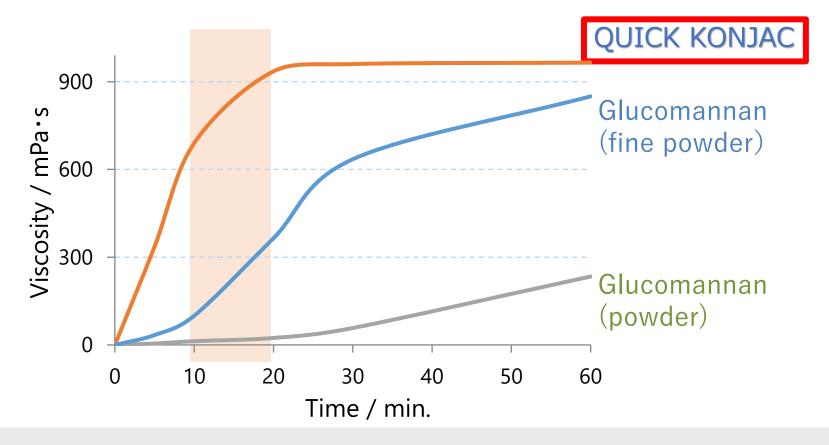
- 5 Low amount of Bacteria
- **6** Stable Viscosity
- **7** Low Smell



Quick viscosity appearance

Viscosity will be in maximum figure in $10\sim20$ min.

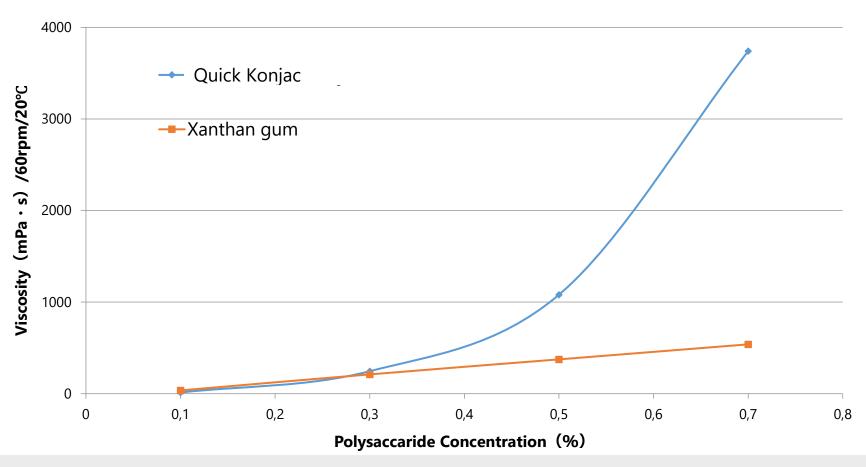
➤ (0.5% concentration)



Quick Konjac has excellent viscosity properties in a very low amount of time

Viscosity according to concentration





Viscosity appearance

Quick appearance of viscosity.

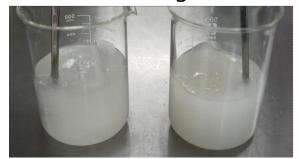
Beginning



Regular **Quick Konjac** Glucomannan



Stirring



Regular **Quick Konjac** Glucomannan





Regular **Quick Konjac** Glucomannan

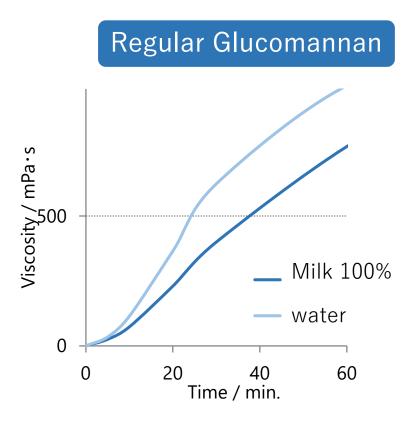


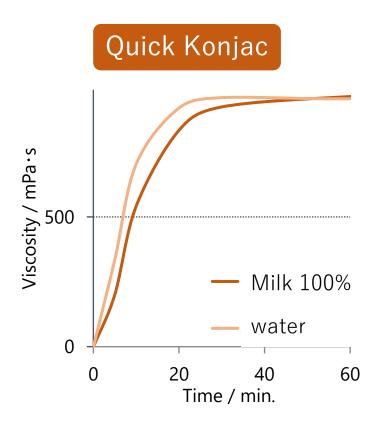
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Milk (Ca) tolerance

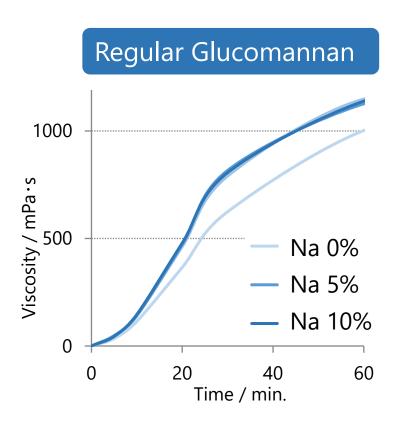
Express high and stable viscosity

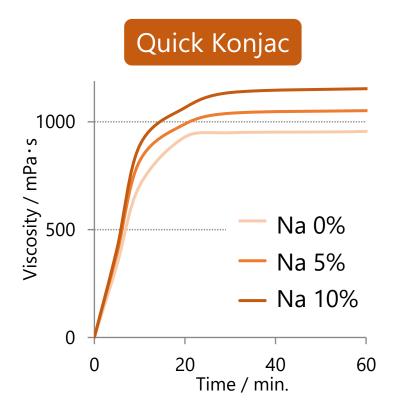




Salt (Na) tolerance

Express high and stable viscosity





Viscosity tolerance

Other tolerances

> pH tolerance : 5 to 9

Alcohol tolerance :

- 1 Reaction with alcohol
 - No reactions are found between alcohol, sugar alcohol and polyalcohol so far.

Other influences

- When alcohol content is above 30%, alcohol prevents Quick Konjac from absorbing water which leads to low viscosity.
- When solid content is above 30% viscosity will be low just like the situation with alcohol.

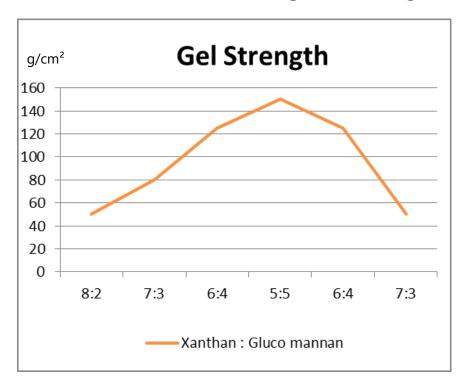
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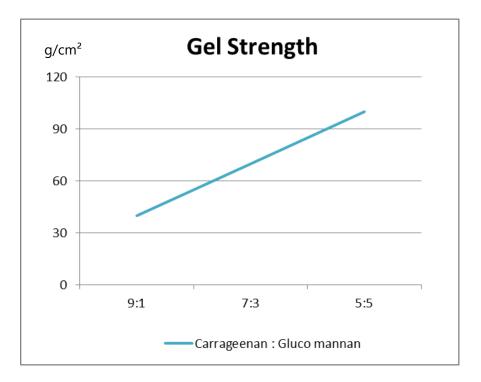
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Hydrocolloid reaction

With Xanthan Gum and Carrageenan

- *Both reaction require heat above 90°C to form gel
- *Ratio of 5 : 5 shows highest strength





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Applications







Sponge Cake

Basic recipe	20% additional water recipe	20% additional water recipe with QUICK KONJAC
Whole egg 2 0 0 g Sugar 1 0 0 g Flour 1 0 0 g Butter 3 0 g	Whole egg 200g Sugar 100g Flour 100g Butter 30g Water 20g	Whole egg 2 0 0 g Sugar 1 0 0 g Flour 1 0 0 g Butter 3 0 g Water 2 0 g QUICK KONJAC 0.5 g
*Texture : Dry and partially hard. *Height : Good	*Texture : Soft and moistured *Height : Low because of adding excess water	*Texture: Soft and moistured *Height: High enough by QUICK KONJAC's effect

Applications

Cake

GOOD effects

- Keep moisture and height
- PREVENT fruits inside to sink.

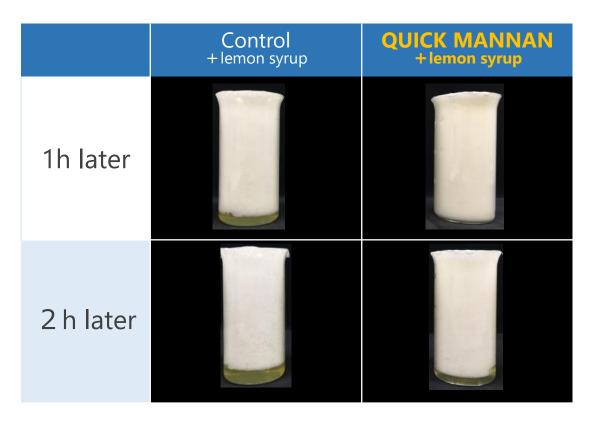


- ①Add extra $10\sim20\%$ amount of water to your basic recipe
- ②Add 0.5% of QUICK KONJAC against flour weight.

Applications

Merengue

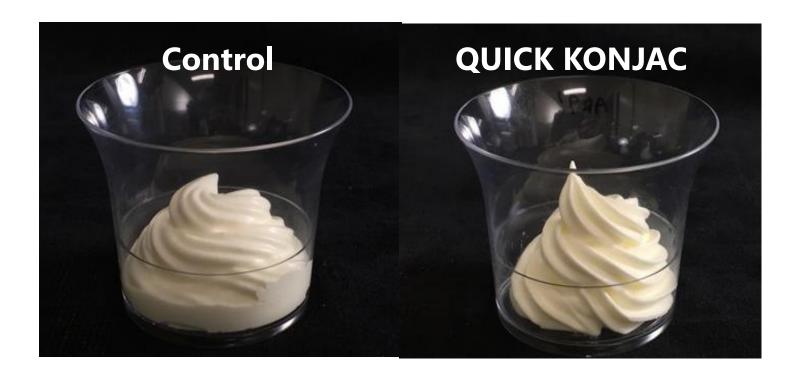
QUICK MANNAN work as a stabilizer



Dosage of QUICK MANNAN 0.5%

Whipped cream

Quick konjac works as a stabilizer



Dosage of QUICK KONJAC 0.5%

Thank you very much

for your continuous support to IWASE COSFA

Contact us

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