

## The explanation of an application patent.

(the patent of number 2015th-090444th)

Lactoferrin and phosphorylated oligosaccharide calcium, We applied for the percentage of the coupling constitution additionally from the smallest unit to the biggest unit.

By the patent of number 2015th-090444th , I applied for the patent with which even the biggest percentage covered constitution of Lactoferrin and phosphorylated oligosaccharide calcium additionally.By this, all percentage of combination of Lactoferrin and phosphorylated oligosaccharide calcium was a right area.Also,by a patent of number 2015th-095075, I applied for a general-purpose patent by the whole composition of matter of Lactoferrin and phosphorylated oligosaccharide calcium additionally.

The field by which development is possible, following, it became for various purposes

The mouth care tablet which is already developed.(For dry mouse and dry syndrom,Sjogren's syndrome.)  
The keeping moist for dry skin and skin lotion in the middle of developing it.(For dry skin)  
Eye drops for dry eyes which are development by cooperation with a medicine manufacturer (For dry syndrome.)

Of the tablet on which I put a protective coating as it was bound with constitution of a mouth care tablet around the medicine, and even multiple drug taking was easy to accept and it might form, I applied for a patent additionally as it was for various purposes and it might be possible to use it by cooperation with a medicine manufacturer.

- 1) Constitution liquid which corresponds to eye drops
- 2) Constitution liquid which corresponds to a nose drop
- 3) Nucleating additive coating composition and constitution liquid
- 4) The composition powder form corresponding to the granules and the powder body data
- 5) Loading solution of skin lotion
- 6) Loading solution of facial cream,Addition composition to foundation.
- 7) Additive of shampoo and hair conditioner.
- 8) Sprayer pill and addition composition of aerosol and dry aerosol.
- 9) Shell, gel and syrup additive.
- 10) Food addition composition.
- 11) Sweet addition composition and drinking water addition composition.
- 12) Flaver seasoning addition composition of seasoning powder body, granules, mayonnaise and sauce.

Agency

## マウスメイト®—Mouth mate—



### Explanation of Mouth mate.

## Leading healthy living and keeping health with foods.

We purpose the new development of functional foods and governmentapproved foods for specified health uses.

- Oral cavity improving agent Patent No.5747274
- Oral cavity improving agent Japanese Patent Application No.2015-090444
- Tablet·Granule Use Japanese Patent Application No.2015-095075
- Phamaceutical manufacturing Japanese Patent Application No.2015-122770
- Toothache stopped Tablet Japanese Patent Application No.2015-227257

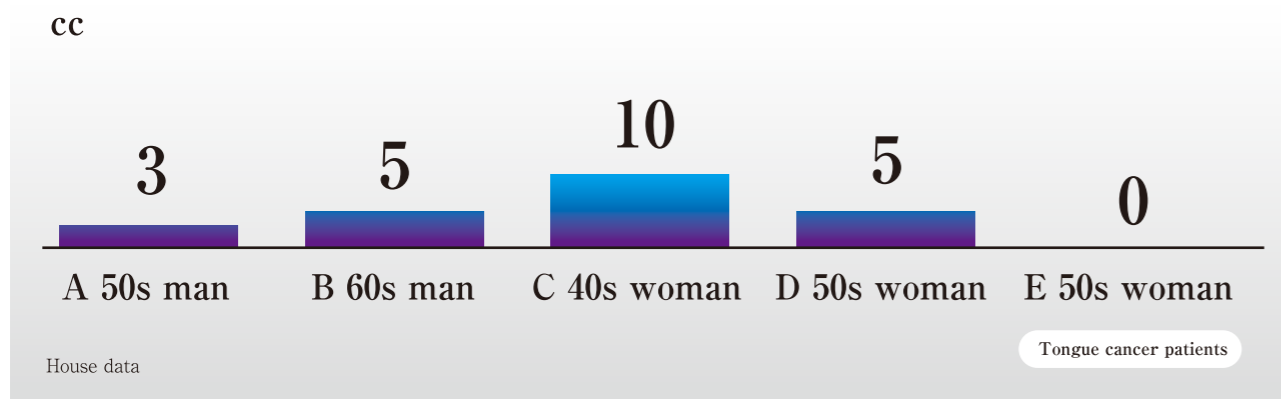
JAPAN MODE

ジャパンモード株式会社

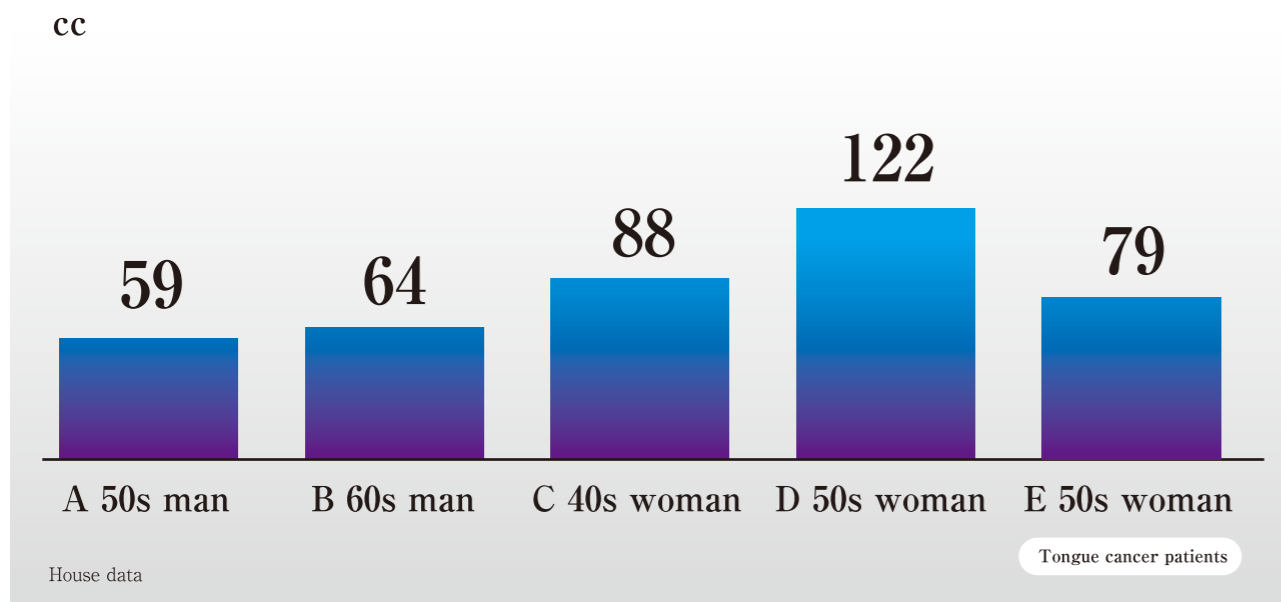
For the patents with dry mouth.

We measured quantity of 5 subjects's saliva 3 hours after meal.

Method of measurement was that the subjects spit out in the measuring cup.



And measured one after taking 500mg's Mouth mate.



the necessity of the development of Mouth mate.

the pill to preserve in the oral cavity needs for showing the lactoferrin's and the phosphorylated oligosaccharide calcium ability.

According to the lactoferrin's academic meeting, the lactoferrin thrown orally is digested by a short time in a stomach.

So it's said that producing consideration of the mouth sticking attachment tablet which is maintaining the lactoferrin in a mouth and is making them release gradually is necessary.

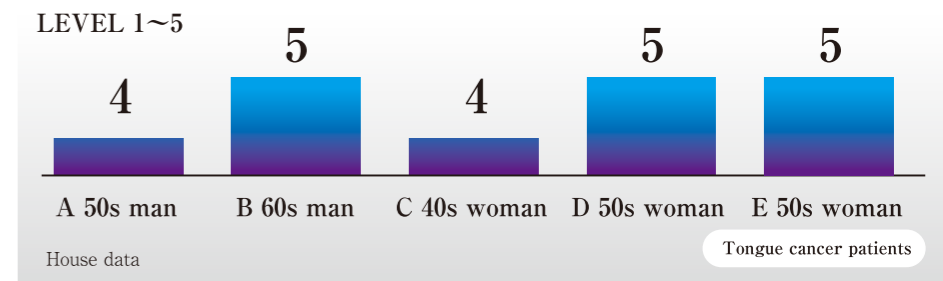
Also,Glico which the company invented the phosphorylated oligosaccharide calcium also is insisting on the necessity which makes stay lengthily in the mouth in the whole world application patent about it.JAPAN MODE developed the Mouth mate tablet which made it possibles together with both of the phosphorylated oligosaccharide calcium and the lactoferrin.

For the person who worries about the halitosis.

The halitosis level was measured with TANITA(Breath checker HC) equally.

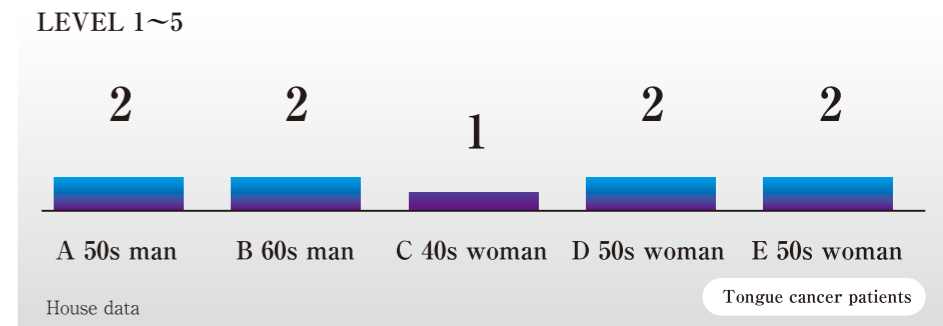
The halitosis level was checked in the state which passes 3 hours and doesn't clean its teeth after meal first.

- 0) No halitosis
  - 1) The weak halitosis
  - 2) The halitosis
  - 3) A little strong halitosis
  - 4) The strong halitosis
  - 5) The very strong halitosis
- ※The halitosis floats within the radius 1m



After that they tasted a tablet for 5 minutes, and it was checked

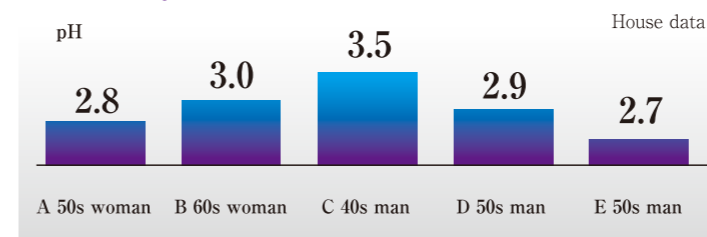
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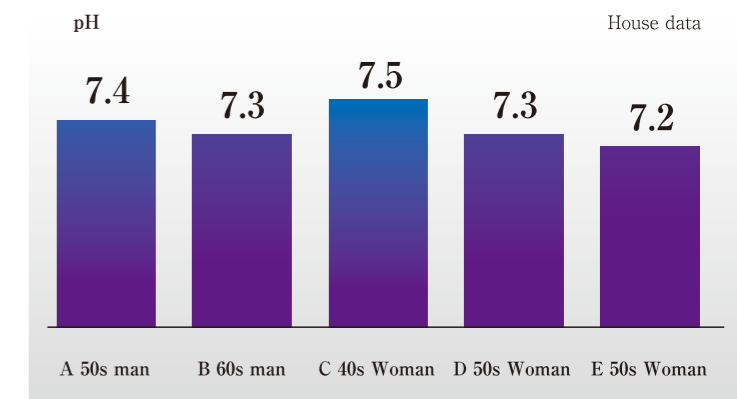
It also corresponds to erosion

Drinking Coke 100cc on 5 subjects for 3 minutes, and after measuring PH in the mouth, a tablet was tasted and measured for 5 minutes.

PH in the just after mouth which drank Coke



PH in the mouth which tasted a tablet for 5 minutes.



That the acid included in foods and drinks is able to melt an outside of a tooth is called erosion. When taking acid foods and drinks, of course, the inside of the mouth becomes acid. But saliva usually neutralizes an acid and returns in the mouth to neutral as well as calcifies enamel around the tooth in which the calcium included in saliva melted and restores. Cavity bacteria in the mouth are the cause of the cavity, but the person who becomes erosion with the acid included in an isotonic drink and lemon foods and drinks says to 1 person for 4 people that it's increasing recently. The acidity is so strong that the numerical value is low for PH value which indicates acidity and alkalinity. When PH in the mouth will be less than 5.5 in case of a cavity, a tooth begins to melt. The numerical value a tooth begins to dissolve in which in erosion isn't revealed conversantly yet. But foods and drinks of PH less than 5.5 refer to the price of the cavity and tend to raise the risk which becomes erosion.