



Market opportunity

Globally, consumers are demanding convenient, great-tasting foods that have recognisable ingredients on the label.¹ In fact, one in four new products today is launched with 'cleaner-label' claims.²

Clean-label ingredients

To formulate a cleaner-label product, manufacturers often need to replace traditional, highly functional ingredients used for specific purposes such as thickening. This approach can affect shelf life, flavour, appearance, texture and other key characteristics, so finding a clean-label alternative that performs well is crucial. That's where CLARIA® Functional Clean-Label Starches come in.

CLARIA® benefits

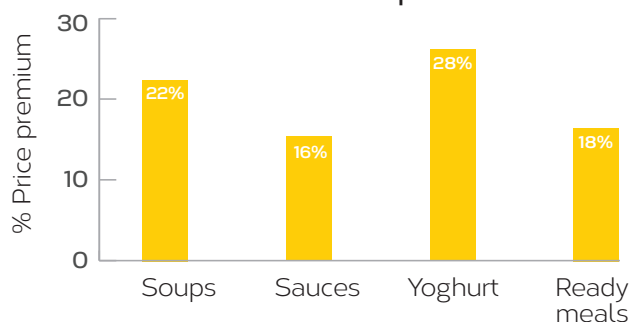
CLARIA® Functional Clean-Label Starches label simply as 'starch'* and:

- Are non-GMO
- Are comparable to food starches and other functional clean-label starches in terms of process tolerance
- Offer clean taste and colour comparable to food starches
- Use CLARIA® technology, a proprietary technology that has been shown to provide improved sensory attributes (colour) vs. other functional clean-label starches

CLARIA® Functional Clean-Label Starches match food starches in terms of process tolerance and offer comparable colour.



Many consumers are willing to pay a premium for 'cleaner-label' products³



Introducing CLARIA® Bliss

New functional clean-label starches made from tapioca.

CLARIA® Bliss attributes

- Delivers a whiter colour, cleaner flavour than other functional clean-label tapioca starches
- Provides high performance similar to a modified tapioca starch
- GMO-free and labels simply as 'tapioca starch'
- Is versatile across a wide variety of applications and sophisticated processes

CLARIA® Bliss applications

Waxy, corn-based CLARIA® clean-label starches and new CLARIA® Bliss clean-label tapioca starches have been tailored for use across a wide range of food-product categories and processing conditions.

Custards
Puddings
Indulgent dairy desserts
Bakery fillings

Creamy sauces
Soups
Toddler meals

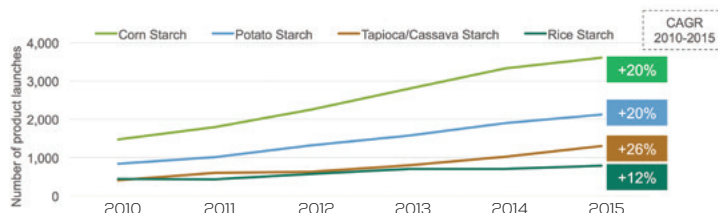
- CLARIA® Bliss 560, like CLARIA® Essential, is preferred for moderate heat and shear processes such as retorting, or for batch cooking conditions that impart high temperature for an extended time.
- CLARIA® Bliss 570, like CLARIA® Plus, is suitable for processes imparting high temperature and shear for a short time (HTST), as in the pasteurisation of fruit fillings and dairy desserts.

- CLARIA® Bliss 580, like CLARIA® Elite, builds optimum viscosity under conditions of high shear and low pH. It is suitable for ultra-high-temperature (UHT) processes such as production of yoghurt-like desserts.

Product	Process tolerance	Viscosity of dairy dessert Brookfield, cps
CLARIA® Bliss 580	very high	7800
CLARIA® Bliss 570	high	7130
Other functional clean-label starches	med-high	4810

Other functional clean-label starches must often be used at higher usage levels to achieve the same viscosities.

Development of global clean-label product launches – by starch type



Sample availability

Samples of each of the six CLARIA® Functional Clean-Label Starches are available in 1-liter containers. The product is sold in a standard commercial pack size of 25-kilogram bags. All six CLARIA® starches are non-GMO and have regular versions available.

CLARIA® Tapioca-Based Starches

CLARIA® Bliss 560
CLARIA® Bliss 570
CLARIA® Bliss 580

CLARIA® Corn-Based Starches

CLARIA® Essential
CLARIA® Plus
CLARIA® Elite

Contact us: Email solutions.tateandlyle@tateandlyle.com to request a sample and see how CLARIA® can support your cleaner-label product launch.

TATE & LYLE

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Functional Clean-Label Starches