



Algemene gegevens	
PPS-nummer	TKI-AF-14282
Titel	Clean label Cluster
Roadmap/Koepel	TKI agrifood
Projectleider onderzoek (naam + emailadres)	Theo Verkleij theo.verkleij@tno.nl
Penvoerder (namens private partijen)	DOW Europe GmbH
Contactpersoon overheid	TNO
Startdatum	13-02-2015
Einddatum	31-12-2017
Korte omschrijving inhoud (max. 4 regels)	The consortium will engage existing regulatory environment and consumer group perspective in defining the clean label framework moreover to address the technological spectrum of ingredient discovery, screening, and modification all the way to product application. An integrated approach provides the technological and logistical know-how for an innovative clean label strategy whereas the consortium will provide practical strategies useful for product developers from both ingredient suppliers and food manufacturers intending to clean-up the labels on their products. Furthermore, the consortium will develop knowledge particularly in discovering new natural ingredients with the desired functionalities, in using physical modification strategies to improve the functionality of current natural ingredients, and in understanding processing conditions that determine the final product quality for clean label products.

Highlights: geef een korte beschrijving van de belangrijkste resultaten
<p>On a technological side, the best way to modify, replace or eliminate non clean label food alternatives was explored. Scientific background and understanding of replacement of ingredients like gelatin and emulsifier was carried out in model systems. Clean label processes were adopted to modify the functionality of wheat flour. Adapting the process and the product, the desired functionality of the flour is reached within the economical boundaries. Only the colour of the flour needs to be improved.</p> <p>Adapting the process also improved the functionality of starch in order to produce gelatin free products. Furthermore a company was selected to carry out experiments on industrial scale.</p> <p>With the novel ingredients, application and testing of different replacers in products was carried out by TNO as well by the partners and several analysis on the products with replaced ingredients were carried out to guide the second step forward to improve or adjust the recipes</p>

Aantal opgeleverde producten in 2016 (geef in een bijlage de titels en/of omschrijving van de producten of een link naar de producten op openbare websites)			
Wetenschappelijke artikelen	Rapporten	Artikelen in vakbladen	Inleidingen/ workshops
	1	2	

Bijlage: Titels van de producten of een link naar de producten op een openbare website
 Diaz, Dr. J. A clear label strategy for food additives, The world of food ingredients, February 2016
 Diaz, Dr. J. How to successfully build a clear label paradigm. The world of food ingredients, March 2016