



An Update on Sustainable Valorization of Coffee By-Products as Novel Foods within the European Union. Dr. Dirk W. Lachenmeier



Baden-Württemberg

15.10.2021

Foods 2021 -

Live Session - "Coffee By-products as Sustainable Novel Foods"

What are "Novel Foods" in the EU

- □ Foods and/or food ingredients, which are:
 - > Relatively new (>1997) on the European market
 - > Exotic origin or unusual composition
 - > Produced by new or innovative technologies
 - > Products without history as safe food for human consumption
- □ Before placing on the market, these products need:
 - > an approval with safety assessment
- In Germany: criminal offence to intentionally place non-approved novel foods on the market







Legal background

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Regulation (EU) 2015/2283

In force since 31.12.2015

Legally binding since

Several new implementing

01.01.2018

regulations



REGULATION (EU) 2015/2283 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 25 November 2015

on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 114 thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national parliaments,

Having regard to the opinion of the European Economic and Social Committee (1),

Acting in accordance with the ordinary legislative procedure (2),



Legal background



Regulation (EU) 2015/2283

Definition - Article 3 Abs. 2 a)

'Novel Food'

means any food that was not used for human consumption to a significant degree within the Union before 15 May 1997, irrespective of the dates of accession of Member States to the Union

Note: Industry is responsible for checking novel food status before placing products on the market!



Determination of NF-Status



Novel Food-Catalogue of EU Commission

- Harmonized (EU Commission and member states) information about the NF Status of many foods
- Non-exhaustive list
- Orientation on whether a product will need an authorisation under the NF Regulation.
- Constant updates based on new knowledge
- EU countries may restrict the marketing of a product through specific legislation.

Coffea sp.

Common Names

DE: Kaffee (Pflanze), FR: Caféier, EN: Coffee, FI: Kahvi, NL: Koffie (boom), GR: Kafea, IS: Kaffi, IT: Caffe', PT: Caféeiro, cafézeiro, DK, NO, SE: Kaffe, PL: Kawa, ES: Café, Cafeto, BG: Kafe

Common Names

The request concerns the green unroasted coffee beans and "white coffee" made of them by a non selective water extraction. Coffee is a brewed beverage with a dark, acidic flavor prepared from the roasted seeds of the coffee plant, colloquially called coffee beans. Coffee berries, which contain the coffee seeds or "beans", are produced by several species of small evergreen bush of the genus *Coffea*. The two most commonly grown are the highly regarded *Coffea arabica*, and the 'robusta' form of the hardier *Coffea canephora* (synon. *Coffea robusta*). The use of dried berries of Coffea sp in tea (Coffee cherry tea) is novel. Coffee cherry tea is an herbal tea made from the dried berries (or "cherries") of the coffee plant. It is also known as cascara, from the Spanish cascara, meaning "husk".

Status







Notif cation of a traditional food from a third country (and where, applicable, authorisation procedure)

Source: http://ipiff.org/wp-content/uploads/2018/06/ipiff_briefing_180525.pdf

Baden-Württemberg

Coffee leaves





TECHNICAL REPORT



APPROVED: 8 January 2020 doi:10.2903/sp.efsa.2020.EN-1783

Technical Report on the notification of infusion from coffee leaves (*Coffea arabica* L. and/or *Coffea canephora* Pierre ex A. Froehner) as a traditional food from a third country pursuant to Article 14 of Regulation (EU) 2015/2283

European Food Safety Authority (EFSA)

Abstract

Following a notification from AM Breweries (Denmark) submitted to the European Commission under Article 14 of Regulation (EU) 2015/2283 to place on the market an infusion from coffee leaves (*Coffea arabica* L. and/or *Coffea canephora* Pierre ex A.Froehner) as a traditional food from a third country (TF), and in line with Article 15(2) of that Regulation, EFSA was asked by the European Commission whether there are duly reasoned safety objections to the placing on the market of the TF within the European Union (EU). The approach of EFSA for the evaluation of TF notifications is based on the EFSA guidance for stakeholders on notifications for authorisation of TF and on the principles described in the relevant existing guidance documents from the EFSA Scientific Committee. EFSA considers that the available data on composition and history of use of the TF do not raise safety concerns. Considering the available data, EFSA does not raise safety objections to the placing on the market of the requested TF [i.e. infusion from coffee leaves (*Coffea arabica* L. and/or *Coffea canephora* Pierre ex A.Froehner)] within the EU.

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EN

Official Journal of the European Union

2.7.2020

COMMISSION IMPLEMENTING REGULATION (EU) 2020/917

of 1 July 2020

authorising the placing on the market of infusion from coffee leaves of *Coffea arabica* L. and/or *Coffea canephora* Pierre ex A. Froehner as a traditional food from a third country under Regulation (EU) 2015/2283 of the European Parliament and of the Council and amending Implementing Regulation (EU) 2017/2470

(Text with EEA relevance)

https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R0917&from=DE

ANNEX

The Annex to Implementing Regulation (EU) 2017/2470 is amended as follows:

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(1) The following entry is inserted in Table 1 (Authorised novel foods) in alphabetical order:

Authorised novel food	Conditions under which the novel food may be used		Additional specific labelling requirements	Other requirements
"Infusion from coffee leaves of Coffea arabica L. and/or Coffea canephora Pierre ex A. Froehner	Specified food category		The designation of the novel food on the label- ling of the foodstuffs containing it shall be 'In- fusion from coffee leaves of <i>Coffea arabica</i> and/or <i>Coffea canephora</i> '."	
(Traditional food from a third country)	Herbal infusions			

(2) The following entry is inserted in Table 2 (Specifications) in alphabetical order:

Authorised Novel Food	Specifications
"Infusion from coffee leaves of <i>Coffea arabica</i> L. and/or <i>Coffea canephora</i> Pierre ex A. Froehner (Traditional food from a third country)	Description/Definition: The traditional food consists of an infusion of leaves from <i>Coffea arabica</i> L. and/or <i>Coffea canephora</i> Pierre ex A.Froehner (family: Rubiaceae). The traditional food is prepared by mixing a maximum of 20 g of dried leaves from <i>Coffea arabica</i> L. and/or <i>Coffea canephora</i> Pierre ex A.Froehner with 1 L of hot water. Leaves are removed and the infusion is then subjected to pasteurization (at least 71 °C for 15 seconds).
	Composition: Visual: Brown green liquid Odour and taste: Characteristic Chlorogenic acid (5-CQA): < 100 mg/L
	Salmonella: Absence in 25 g Heavy metals: Lead (Pb): < 3,0 mg/L Arsenic (As): < 2,0 mg/L Cadmium (Cd): < 1,0 mg/L CFU: Colony Forming Units"

https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R0917&from=DE

Summary coffee by-products novel food status



CVUA Karlsruhe

Next Steps



- The industry effort to approve coffee by-products is very incoordinated and potentially misaligned
- Suggestion for coffee by-product consortium to coordinate efforts
- Traditional uses in third countries should be further explored (e.g. indications of cherry spirit in Nepal as traditional artisanal beverage or coffee flower uses in sweets)
- Silver skin: consultation to determine novel food status suggested (in Germany at BVL)
- Food safety must always be ensured independent of novel food status!
 E.g., check for contaminants, mycotoxins, microbiology etc.



Thank you for your interest

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Review paper (open access) on coffee by-products: Klingel et al.: A Review of Coffee By-Products Including Leaf, Flower, Cherry, Husk, Silver Skin, and Spent Grounds as Novel Foods within the European Union. Foods 2020, 9, 665. <u>https://doi.org/10.3390/foods9050665</u>

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Picture sources (if not otherwise stated): own pictures