

# Summary of studies on quality differentiation of products

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## CROATIA

The Croatian Food Agency (HAH), at the initiative of Dr. med. Biljana Borzan - Osijek, August 2017

(based on EN summary: [http://biljanaborzan.eu/upload\\_data/site\\_files/one-union-one-quality-survey-eng.pdf](http://biljanaborzan.eu/upload_data/site_files/one-union-one-quality-survey-eng.pdf))

The aim of this study was to examine physio-chemical and sensory properties and to compare the product declaration<sup>1</sup> on the Croatian market, as the latest member of the EU, compared to (apparently) the same products on the German market as the old EU members. The study was fully funded by the S&D Group of the European Parliament.

Following laboratories have been selected to carry out physico-chemical analysis:

- Food Control Center of the Faculty of Food Technology and Biotechnology of the University of Zagreb, Jagićeva 31, Zagreb
- Educational Institute of Public Health [redacted] Mirogojska 16, Zagreb
- Euroinspekt Croatiakontrola d.o.o., Karlovačka cesta 41, Zagreb
- Croatian Institute for Public Health, Rockefellerova 7, Zagreb.

All products were sampled in the period from 29 to 31 March 2017 in Germany (Munich) at the shops of Rewe, Edeka and Kaufland and in Croatia (Zagreb) from 3 to 5 April 2017 at Kaufland, Konzum, Plodine, Interspar and Bill. Sampling was carried out by [redacted] of the Institute of Public Health, and a representative of the Croatian Food Agency as an institution that has been in the overall research role as an expert coordinator, taking into account that research is conceived and conducted on scientific grounds

Within the first phase of the study, 23 food products (beer highlighted in grey) and 5 products from the category of washing /cleaning and personal hygiene ( highlighted in yellow) were tested.

### Products that have a great difference in quality

Of all the analysed products in 6 products there was a large (statistically significant,  $p < 0.05$ ) difference in quality, with 2 or 3 observed criteria (physico-chemical analysis, sensory analysis / organoleptic and declaration compliance). Of these, 5 products are from the category of food products, and one from the category of washing and cleaning agents and personal hygiene.

#### ➤ Agricola Italiana Alimentare (AIA) – WUDY chicken and turkey sausage

- for the DE market: 62% turkey meat and chicken fat;
- for the HR market: mechanically deboned turkey and chicken meat (94%) which, according to EU legislation is not included into the definition of “meat” and must not be advertised as such;
- the manner of marking the product from the HR market (100% carni italiane, in translation 100% Italian meat) and the name of the product (“Frankfurters made of chicken and turkey meat”) mislead the consumers when it comes to the composition and components of the product;

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<sup>1</sup> The comparison of the Declaration relates to compliance with the regulations (Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011 on the provision of food information to consumers) and / or the compatibility between the two markets.

- the product on the HR market contains added polyphosphates (E450, E452) unlike the products from the German market, where the polyphosphates were not added;
  - sensory analysis determined differences in colour, taste and texture (the product from the DE market is lighter, fattier and softer) misunderstand the composition and ingredients of the product because "machine-cut meat" EU regulations should not be labeled as "meat".
  - the product is by 37% cheaper in Croatia.
- **HIPP Germany – Baby food BIO RICE AND CARROT WITH TURKEY**
- DE market: more vegetables - 38 % (carrot and potato), less rice 15 %, HR market: the only vegetables it contains are carrots 24% and a greater share of rice 21 %;
  - difference in colour, taste and aroma;
  - difference in the amount of rapeseed oil (source of omega-3 fatty acid – 1.9% for DE market and 1.7% for HR market);
  - products bear the same item code for both markets;
  - the product is by 54% more expensive in Croatia.
- **Ferrero – NUTELLA (HR Ferrero, Poland / DE – FERRERO MMXVII, D-60624 FRANKFURT/MAIN)**
- HR product contains whey powder and a small percentage skimmed milk powder (6.6%), while product from DE contains only skimmed milk powder (7.5%);
  - significant difference in spreadability of the product, confirmed by physical and chemical analyses (HR product has higher pour point, which means it is more difficult to spread it at the same temperature;
  - significant difference in colour, consistency, smell and taste of the product (HR product Croatia is sweeter, denser and has more of a cocoa flavour, while the product from Germany is darker, has hazelnut flavour and spreads more easily;
  - the product is by 28% more expensive in Croatia.
- **DANONE - Activia BIFIDUS ACTIREGULARIS STRAWBERRY FRUIT YOGHURT 7**
- significant difference in the list of ingredients (DE product has greater share of strawberries and no listed additives, HR product contains more sugar, which is confirmed by chemical and sensory analysis.
- **HARIBO - HARRIBO HAPPY COLA, cola flavoured gummy candy (DE – HARRIBO BONN / HR – HARRIBO Linz/Austria)**
- large amount of the total sugar in products for the DE market, proven both in sensory and chemical analysis;
  - DE product has significantly greater amount of total sugar than the amount on the label, which is not in compliance with the Guiding document (EC) on tolerances for nutrient values declared on a labels;
  - the product is 39% more expensive in Croatia.
- **Procter & Gamble Germany – ARIEL laundry detergent powder**
- significant difference regarding organoleptic, composition, volume ratio of the packaging, type of packaging, dosing, formulation ("compact");
  - the product from the German market is significantly more efficient in washing at low temperatures (40°C), while the difference is also present at 60°C, but it is smaller;

- for the same washing effect in Germany “compact” formulations prevail, where less powder is needed at low temperatures, unlike “traditional washing” in Croatia (using more powder and higher temperatures);
- the product is 24% more expensive in Croatia.

#### **Products that have a small difference in quality**

- **Coca Cola Company – Coca-Cola** (Coca-Cola European Partners DE, Berlin / Coca-Cola HBC Hrvatska d.o.o. Zagreb)
  - the products differ according to type of sugar they contain (for DE market: sucrose, for HR market: high-fructose corn syrup)
- **Beverage Partners Worldwide (Europe) AG, Coca-Cola – NESTEA ICE TEA PEACH** (Beverage Partners Worldwide (Europe) AG, Coca-Cola HBC, Magyarország Kft., Hungary / Beverage Partners Worldwide (Europe) AG, distributed by Coca-Cola, European Partners DE, Berlin)
  - products differ according to ingredients listed on the label: for HR market: fructose and sweetener (steviol glycoside), for DE market: sucrose. As the consequence, energy value of the product from HR is smaller than the product from DE.
- **Mondelez – MILKA, MILK CHOCOLATE WITH ALPINE MILK AND WHOLE HAZELNUTS** (Mondelez, Bulgaria / Mondelez Deutschland D-288078 Bremen)
  - for DE market: one emulsifying agent (soya lecithin), for HR market: two emulsifying agents (soya lecithin and E476, used in chocolate production as replacement for cacao);
  - the product is by 14% more expensive in Croatia.
- **Monini (Spoleto Italy) - EXTRA-VIRGIN OLIVE OIL CLASSICO**
  - the product for the Croatian market has no nutritive declaration listed and is not in compliance with the EU Regulation on Food Consumer Information;
  - the product is by 19% more expensive in Croatia.
- **Nestlé – NESQUIK, YA BREAKFAST CEREAL WITH THE TASTE OF CHOCOLATE, WITH ADDED VITAMINS AND MINERALS** (for the Croatian market: CEREAL PARTNERS FRANCE 02240 Itancourt, France)
  - the list of ingredients on the label referring to cereals, especially the ingredient included in allergens, is not in compliance with the EU Regulation on Food Consumer Information.
- **Mondelez – PHILADELPHIA SPREADABLE CREAM CHEESE - EXTRA FAT**
  - German consumers are informed better, since the number of servings is marked on the label contained in the pre-package (mandatory pursuant to the EU Regulation on Food Consumer Information) and the percentage of the nutrients per serving as percentage of Recommended Dietary Allowance for an average adult;
  - the product is by 47% more expensive in Croatia.
- **HEINEKEN - Heineken light beer, pasteurised** (HEINEKEN HUNGARY Sorgyarak ZRT, H-9400 Sopron, Hungary / Heineken Brouwerijen B.V., Amsterdam, Holland Heineken Deutschland GmbH, 10245 Berlin)
  - there are differences in taste and overall sensory evaluation of both products, which is confirmed by the chemical analysis results, but the differences are in compliance with

tolerances, and we could say that it is consumer preference (the product from HR was evaluated as having a more bitter and fuller taste);

- the product is by 26% more expensive in Croatia.
- **Coca Cola Company - COCA COLA ZERO** (Coca-Cola HBC Hrvatska d.o.o. Zagreb, Croatia / Coca-Cola European Partners DE, Berlin)
  - there is a significant difference in taste of the two analysed products – we could say that it is consumer preference

#### **Products where difference in quality was not determined**

- **Jacobs - JACOBS CRONAT GOLD INSTANT COFFEE** (the product is by 29% more expensive in Croatia)
- **Pepsi Co. - PEPSI COLA** (the product is by 36% more expensive in Croatia)
- **Zott - MONTE CHOCOLATE MILK DESSERT** (the product is by 36% more expensive in Croatia)
- **Bolton Alimentari - RIO MARE TUNA IN OLIVE OIL** (the product is by 46% more expensive in Croatia)
- **WMBPringles, UMA INVESTMENTS – PRINGLES ORIGINAL, salty snack** (the product is by 110% more expensive in Croatia)
- **Henkel – BREF POWER-GEL, TOTAL PROTECTION CLEANING AGENT** (the product is by 30% more expensive in Croatia)
- **Beiersdorf A.G. - NIVEA SHOWER GEL** (the product is by 56% more expensive in Croatia)
- **Colgate-Palmolive - COLGATE TOOTHPASTE** (the product is by 79% more expensive in Croatia)
- **Rauch - HAPPY DAY 100% ORANGE JUICE, mild taste, from juice concentrate with calcium**
- **Red Bull - RED BULL, energy drink**
- **Barilla - BARILLA SPAGHETTI n.5, DRY PASTA FROM DURUM WHEAT SEMOLINA**
- **Procter&Gamble - LENOR fabric softener**

## **CZECH REPUBLIC**

dTest, o.p.s – September 2017 ([www.dtest.cz](http://www.dtest.cz))

Main Czech consumer testing association compared the washing powders in DE and CZ.  
No differences in efficiency were found.



18-23-Test-PraciPros  
tredky.pdf

## Testing of the quality of products sold under the same brand in the Czech Republic and the neighbouring countries of the EU – 11 July 2017

Contracting authority: Ministry of Agriculture of the Czech Republic

Author of the study: University of Chemistry and technology Prague, Department of Food Preservation

Selection of products and results of the tests:

On 27 April 2017, 30 products were chosen by the academical board to be tested. After the meeting of the board, 21 products with the same marketing purpose were identified, (not indicated how).

On 29 May, the testing board identified:

- 13 products as different
- 5 products as slightly different
- 3 products as same
- 5 products different regarding the filling into the same-size packaging. *At the moment, we do not have evidence whether the different weight is clearly indicated on the packaging of the products.*

List of products evaluated as different:

- **Ferrero – Nutella**
  - higher content of caffeine and theobromine in DE
  - use of different kinds of cacao powder/different ratio of cacao powder in DE
  - 10 % of protein in the paste in DE
  - sensory test: darker colour of the product in DE than in CZ
- **Mars – M&M's**
  - different rations of used oils in the product. Overall, the difference does not affect the final profile of fatty acids.  
In AT, CZ, HU: palm kernel oil, palm oil, shea oil  
In DE, SK: coconut oil
  - sensory test: DE product was less preferred during the test (than CZ)

➤ **Nestlé – Nesquik**

- different ratios of cacao powder and added vitamins in DE

|     | Vitamin D3<br>(Cholecalciferol)<br>[µg/100 g] | Vitamin C<br>[mg/100 g] | Vitamin B9 (folate)<br>[µg/100 g] |
|-----|---|-------------------------|-----------------------------------|
| CZ  | 21,1  | 181,0                   | 137,0                             |
| SK  | 23,8  | 187,0                   | 123,0                             |
| AT  | 20,9  | 188,0                   | 190,0                             |
| SRN | 9,5   | 88,5                    | 305,0                             |
| HU  | 20,2  | 189,0                   | 150,0                             |

- lower content of cacao dry matter in DE (contradiction with the proclaimed fact indicating 0.6 % more than in other countries).

- **Teekanne– Green tea**
  - different ratios of caffeine and tea extract (AT vs CZ)
  - sensory test: significant differences (no fixed ratios of ingredients for filling of tea bags)
- **Jacobs Douwe Egberts– Jacobs original 3v1**
  - in AT, DE: different ratios of sugar, fatty acids and quantity of coffee
  - same size of packaging, but different weight of portions: AT, DE: 18 g/pp  
CZ, SK, HU: 15.2 g/pp

Not clear for from the study if the difference in weight of portions is clearly indicated on

- the packaging.
- sensory test: significant difference in colour of the powder
- **Nestlé – Nestea Lemon tea**
    - no sweetener added, contains more sugar in DE (vs CZ)
  - **Tulip – Luncheon meat**
    - in DE made of pork, in CZ made of mechanically separated poultry meat
    - ingredients and nutritional values different (CZ vs DE)
    - sensory test: two completely different products
  - **Bel – Kiri**
    - in AT, DE: slightly higher content of protein and fat, lower content of sugar
    - same size of packaging, different weight: AT, DE: 120 g/CZ, SK, HU: 100 g
    - sensory test: products from AT, DE were better evaluated
  - **Danone – Activia strawberry**
    - DE vs HU: different content
    - sensory test: the best taste results had the products from DE. Statistical similarities were found for products from DE and CZ in comparison with HU (not explained which data were tested).
  - **PepsiCo– Lay's**
    - in DE products is no palm oil
    - DE products have a higher peroxide number
    - sensory test: DE product was evaluated with the lowest preference
  - **Kaufland– yoghurt**
    - different ratios of micro-organisms and declared nutritional values (DE vs CZ)
  - **Nomad Foods – Iglo Fish Fingers**
    - different declared content of meat (+ analytical results of meat ratios in products)
    - AT, DE: declared 65 % of meat content (analytical results: 63.8 %)
    - CZ, HU, SK: declared 58 % of meat content (analytical results: 50.2 %)
    - sensory test: AT and HU products were evaluated with significantly lower preference
  - **Dr. Oetker - Pizza Ristorante**
    - different declared ratios of ingredients and garnitures (mostly cheese)
    - same size of packaging, different weight: AT: 335 g/CZ, SK, HU: 330 g
  - **P&G - Lenor**
    - same size of packaging, different weight: AT, DE: 990 ml/CZ, SK, HU: 930 ml
    - sensory test: CZ and SK product different from At (not indicated how).
  - **Henkel - Persil**
    - differences in ratios of volatile compounds
    - differences in ratios of active compounds: AT, DE vs CZ, HU, SK
    - sensory test: differences among products (not indicated in detail) .



## "Final Report of Product Quality Comparison in the CR and FRG"

Prague – 24 April 2015

Supervisor: University of Chemistry and Technology Prague

Project partners: MEP Olga Sehnalová and Ahold Czech Republic, a.s. (Ahold grocery chain operator)

24 pairs of products bought in **Czech Republic** (TESCO, Kaufland, Albert in Prague) and in **Germany** (Kaufland, EDEKA, REWE in Dresden) were tested.

One product was excluded from the evaluation since there was a reasonable doubt whether the product brand was the same. **Of the 23 remaining samples, 8 samples were evaluated as different (35%).**

### List of products evaluated as **THE SAME**:

- ✓ MOVENPICK – Bourbon Vanilla
- ✓ PFANNER – 100% Orange Juice
- ✓ SEGAFREDO – Espresso Casa
- ✓ MULER – Blueberry Box
- ✓ LEEDAMER Original – Leedamer Original
- ✓ PICK – Hungarian Salami
- ✓ MEICA – Frankfurter Sausages
- ✓ CARBONELL – Extra Virgin
- ✓ HEINZ – Ketchup
- ✓ SCHAWARTAU – Strawberry
- ✓ Ferrero - Kinder Surprise Egg
- ✓ STORK – Toffifee
- ✓ BOUNTY – Bars
- ✓ BARILLA – Arrabbiata
- ✓ BONDUELLE – Gold Sweet Corn

### List of products evaluated as **different**:

- PEPSICO – Pepsi Cola CZ product sweetened with glucose-fructose syrup, DE with sugar
- COCA-COLA – Sprite CZ sweetened with fructose-glucose syrup, aspartame and acesulfame, DE with sugar
- NESTLÉ/COCA-COLA - NESTEA – Ice Tea Lemon CZ product sweetened with sugar, fructose and steviol glycosides; DE with sugar only. CZ product contains 40% less tea extract
- JACOBS DOUWE EGBERTS – Jacobs Kronung CZ coffe has almost 1/3 higher caffeine content
- DANONE – Activia Strawberry different colorants, different content of fat (CZ: 2,43g DE: 2,93g / 100g), CZ: milk protein added
- UNILEVER – Rama CZ fat content 60%, DE – 70%
- NOMAD FOODS - IGLO Fish Fingers products vary in meat content. CZ product contains about 7% less meat than the one from DE. The raw material used is the same.
- TULIP – Luncheon Meat main component – CZ: mechanically separated poultry meat, DE: pork meat<sup>2</sup>

Excluded from the test: RIO MARE – Tuna can (Bolton Alimentari)

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<sup>2</sup> "Testing, evaluation and comparison of foodstuff bought in the Czech Republic and Germany" – ppt presentation by [REDACTED] 12/05/2017 - Slovak Perm Rep seminar on dual quality of foodstuffs

## HUNGARY

National Food Chain Safety Agency (NÉBIH)<sup>3</sup>  
February-March 2017

**96 pairs of products** were tested: 84 food products, 7 alcoholic beverages (beers - highlighted in blue) and 5 dog or cat food (highlighted in grey). The survey sought to check whether there are differences in products sell under the same brand in both domestic and Western European markets.

Tests included:

- the declared ingredients;
- hence any quality differences (e.g. caused by use of substitution of certain raw materials, additives, ingredients, flavour enhancers, etc.);
- organoleptic differences;
- purchase prices of the products;
- quantities;
- presentation/packing.

Products were divided in **3 categories**:

**1. The same brand and appearance of products with the same composition.**

The number of products concerned: **51** (53 pairs tested – Mon Cheri chocolates and Nutella were tested 2 times in different countries)

Any differences may arise (deliberate or accidental) in the organoleptic tests, caused by:

- use of the feedstock from different sources (e.g. mixtures of extra virgin olive oil for the domestic market, while the European Union origin olive oils);
- different qualities of processing (e.g. use of fruit purée containing seed and/or fruit pulp);
- confectionery products, the colour of the finishing (e.g. the darker colour of other origin cacao);
- different quality of the raw material (e.g. in protein difference for nutritional value);
- marking: it can be deduced from the multilingual pre-printed stamps, which markets the products are destined for;
- different production technology (e.g. in the case of coffee roasting).

**NO DIFFERENCES (24/53)**

- ALFRED RITTER GmbH & Co. - Ritter SPORT Dark Whole Hazelnuts DE
- ALMDUDLER - Almdudler Original Alpenkräuterlimonade AT
- BOLTON ALIMENTARI - RIO MARE tonno all'Olio di Oliva IT / distributor HU
- Brau Union AT / Heineken HU - Heineken 5%
- Brau Union AT - Edelweiss hefetrüb Weizenbier 5,3% AT
- FERRERO - Kinder Schocko-bons BE / HU
- FERRERO - Kinder chocolate AT, DE / HU
- FERRERO Mon Cheri AT / HU
- FERRERO Mon Cheri IT / HU
- FERRERO - Nutella AT / HU
- HEINZ GmbH - Heinz Tomato Ketchup DE / HU
- Lemon ES
- MANNER - Manner Zitrone AT

<sup>3</sup> <http://portal.nebih.gov.hu/hu/termek-osszehasonlitas-2017>

- **MARS - Chappi made in EU / Mars Mo. Bt.**
- Molkerei Seifried / Nöm AG - Milfina New Lifestyle AT
- MONDELEZ - Milka Alpine milk chocolate with hazelnuts 300g DE, AT / HU
- MONDELEZ - Toblerone CH / ...
- MONDELEZ - BelVita Breakfast sandwich Yoghurt DE, AT / HU
- MÜLLER MILCH GmbH - Milch Reis Schocko
- NÖM AG - Nöm Café AT
- PICK - Pick Original HU Paprika sausage HU
- SPAR - S budget Mozzarella DE, AT / HU
- UNILEVER - Rama made in EU / HU
- UNILEVER - Lipton Inspiring Ceylon Black tea DE / HU

**NO DIFFERENCE only comment concerning price**

- FERRERO - Tic-tac AT, DE, CH / HU
- FERRERO - Kinder Bueno DE / HU

**Products with SENSORY DIFFERENCE (27/53)**

- **A DARBO - Strawberry jam AT – use of seedfree fruit puree in case of the foreign product, use of seed containing fruit pulp or fruit in case of HU**
- **ALFRED RITTER GmbH & Co. - Ritter SPORT marzipan DE / DE, HU**
- **AUGUST STORCK - Toffifee made in DE / DE, HU**
- **BERTOLLI - Bertolli olio extra vergine IT – foreign extra virgin olive oil is not a mixture, the product destined for HU market is a mix of olive oils from the EU**
- **DR. OETKER GmbH - Vanillin sugar AT / HU**
- **DR. OETKER GmbH - PAULA chocolate-vanilla pudding DE / HU**
- **ECKES-GRANINI - Yo fruit sirop AT**
- **FERRERO - Raffaello BE, AT / HU**
- **FERRERO - Nutella IT / HU**
- **HARIBO - Haribo Original Happy Cola AT / HU**
- **KOTÁNY - Cinnamon minced AT / HU**
- **KOTÁNY - Cinnamon AT / HU**
- **KOTÁNY - Bay leaf AT / HU**
- **KOTÁNY - Oregano AT / HU**
- **MANNER - Manner Wein Feinste Eierbiskotten AT**
- **MANNER - Manner Wien Crispy Waffeln with Hazelnuts filling AT**
- **MANNER - Manner Wien Crispy Wafel with chocolate filling AT**
- **MONDELEZ - Milka milk chocolate AT / HU – different-originated, higher quality cocoa raw material in case of darker, foreign product<sup>4</sup>**
- **MONDELEZ - BelVita breakfast biscuits with cacao and chocolate DE, AT / HU**
- **NESTLÉ - Nestlé Cookie Crisp cereals PL / HU**
- **NESTLÉ - Nesquik cacao powder AT / HU**
- **NESTLÉ - Gourmet Gold made in EU / HU**
- **PICK - Pick Original HU Salami HU**
- **Plenzsky prazdroj CZ/Dreher brewery - Kozel Premium Beer**
- **PODRAVKA - Vegeta spice mix HR / HU**
- **SPAR - French fraises DE**

<sup>4</sup> "Results of the investigation on dual quality of foodstuff" – ppt presentation by [REDACTED] – 12/05/2017 - Slovak Perm Rep seminar on dual quality of foodstuffs

- **TCHIBO GmbH - Tchibo Espresso Milano Style Elegant DE / made in EU**

2. **The same brand and external appearance but different in composition.** In addition to a comparison of ingredients for these products, the organoleptic examination has been carried out. Even if there is a difference in composition and quality, sensory test does not always show differences between products.

The number of products concerned: 25

- Use of different quality raw materials (e.g. different nutrition data by artificially replacing the missing mineral, for example, calcium for milk products);
- the same recipe, products with the same flavour (e.g. some soft drinks, cereal products) but more expensive raw materials are replaced with cheaper alternate (e.g. Alaska salmon fillets replaced by cheaper cod or hake fillet);
- ranking of certain raw materials (e.g. the palm oil in soup cube is ranked fourth in the list of ingredients, while being second on the list somewhere else);
- volume between products of the same factory.

**Products with DIFFERENT COMPOSITION (6/25):**

- **COCA-COLA - Coke AT / HU - the Hungarian product contains fructose-glycose syrup, the foreign product contains sugar**
- **DR. OETKER - Pizza Ristorante Hawaii AT / HU**
- **MARS - Kiteket made in EU / HU**
- **MARS - Whiskas ... / HU**
- **Ottakringer Brauerei Wien / Pécsi brewery HU - Ottakringer Wiener original**
- **UNILEVER - Vienetta Ice cream AT / HU**

**Products with SENSORY DIFFERENCE and DIFFERENT COMPOSITION (19/25):**

- **Brau Union AT / HEINEKEN HU - Kaiser Bier**
- **COCA-COLA - Fanta Orange AT / HU**
- **DANONE - Activia Yogurt drink AT / HU**
- **DANONE - Actimel BE / BE**
- **DR. OETKER - Choco pudding AT / HU - the foreign product has only cocoa powder as flavouring, the pudding cooked is creamier, darker and tastes more intense**
- **DR. OETKER Bourbon Vanilla sugar AT / HU**
- **DR. OETKER Brownies baking mix DE / HU**
- **Gösser (AT / HEINEKEN HU)**
- **HARIBO - Haribo Goldbären AT / HU**
- **Kelly Ges.m.b.H AT / Intersnack HU - Pom-Bär Original chips**
- **KELLOGG'S - Corn Flakes The Original IR / distributed by Orbico HU**
- **Löwenbräu DE / Borosodi brewery HU - Löwenbräu Original Beer**
- **MONDELEZ - Milka chocolate with whole hazelnuts 100g DE / HU**
- **MONDELEZ - Tuc original crackers AT (made in BE by LU) / HU**
- **Monster Energy Drink (made in EU)**
- **NESTLÉ - Maggi beef soup AT / HU - in the list of components that is in line with decreasing amount, palm oil is the fourth in the foreign product and second in the Hungarian one**
- **NESTLÉ Nescafe 3in1 AT / HU**
- **NOMAD FOODS - IGLO Fish fingers distributor Frozen Fish International International DE / Frozen Fish International HU - the fish is thicker in the breaded fish finger in the foreign product, therefore with the same indicated number of fingers the Hungarian product contains less fish by a finger**

- **SPAR - S budget fish-sticks AT / HU** – *cod or hake instead of Alaskan salmon fillet in the Hungarian product; in the foreign product the fish is white, juicier, smoother<sup>5</sup>*

### 3. Similar products.

In a number of cases, the experts found that the product did not have a clearly same domestic version, however, very similar version of the "original" product. In such cases, the use of cheaper raw material in similar packaging can mislead purchasers of the product.

- The higher the substitution of materials (e.g. flavour enhancers);
- raw materials (e.g. use of a quality other than high quality/"original" products)

The number of products concerned: **18**

#### **Product with NEITHER SENSORY NOR COMPONENT DIFFERENCE (1/18)**

- **Molkerei Ammerland DE / DMK GmbH DE for Lidl - Milbona Gouda cheese**

#### **Products with DIFFERENT COMPONENTS (1/18):**

- **LIDL - Orlando Nuggets (Lidl DE / Lidl HU)**

#### **Products with SENSORY DIFFERENCE (1/18):**

- **JACOBS DOUWE EGBERTS - Jacobs Krönung (DK)**

#### **Products with DIFFERENT COMPONENTS and SENSORY DIFFERENCES (15/18):**

- **Bahlsen DE / Maresi Foodbroker HU - Leibniz ZOO original biscuits**
- **DR. OETKER - Vitalis ChocoMüsli DE, AT / HU**
- **RAUCH - Ice tea Lemon AT / HU**
- **SPAR - S-Budget Choco pudding AT / HU**
- **SPAR - S-Budget Gouda in slices AT / HU** - *the difference in protein content in the nutrition values suggests different quality of raw material*
- **SPAR - S-Budget toast bread AT / HU** - *additive-free wheat bread abroad, the Hungarian version contains 8 additives*
- **SPAR - S-Budget tortelloni with ricotta cheese Lichtenstein / HU**
- **SPAR - S-Budget gherkins DE / HU**
- **SPAR - S-Budget chips paprika DE, AT / HU**
- **SPAR - S-Budget chips cream and onion DE, AT / HU**
- **SPAR Sugo meat / DESPAR ragu (made in AT / made in IT)**
- **TEEKANNE - Earl Grey black tea AT**
- **Tortelloni Ricotta-Spinaci (made in AT / DE)**
- **UNILEVER - Knorr Fix Carbonara AT / HU**
- **UNILEVER - Knorr Beef bouillon AT / HU** - *the Hungarian product contains flavour enhancer, the foreign one has label of being free of it.*

<sup>5</sup> "Results of the investigation on dual quality of foodstuff" – ppt presentation by [REDACTED] 12/05/2017 - Slovak Perm Rep seminar on dual quality of foodstuffs

**Similar investigation took place in 2014. 24 products were tested.**

- **Wafer sweets (MANNER)** – almost identical nutritional content, the consistency of the foreign wafer has less loose structure than the HU;
- **Nutella (FERRERO)** – HU is less soft, less well worked out;
- **Ritter SPORT dark chocolate filled with marzipan (ALFRED RITTER)** – same sugar and fat content, but still the dark chocolate cover is harder to melt in the mouth in the HU;
- **Coke (COCA-COLA)** – scent of the Hungarian product is less full, it contains 0,6% more sugar (its energy content is also higher). Sugar composition is different, the AT contains saccharose also, the Hungarian contains cheaper (corn-based) fructose-glycose syrup;
- **Dairy products (Paula pudding, Landliebe rice oudding, Actimel yogurt drink)** - the HU pudding has thinner texture, sweet is the dominant taste, the cocoa-vanilla taste is weak. AT rice pudding's taste is richer, tastes creamier. Because of the quality difference in the aroma used in the yogurt the Hungarian product tastes and smells harsher, sweeter. AT product's taste and smell reminds more of a natural fruit.<sup>6</sup>

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<sup>6</sup> "Results of the investigation on dual quality of foodstuff" – ppt presentation by [REDACTED] 12/05/2017 - Slovak Perm Rep seminar on dual quality of foodstuffs

## LITHUANIA

The State Food and Veterinary Service presented the results of the research they have undertaken on the quality of comparative food products – 19 September 2017

In the study, the Lithuanian Food and Veterinary Service compared the same branded products sold in Lithuania and Germany and found differences in the composition of 23 out of 33 products:

- 6 fish, dairy and meat products
- 27 products of non-animal origin:
  - 5 dry breakfast,
  - 7 coffee, tea, cocoa,
  - 5 biscuits, chocolates,
  - 4 soft drinks,
  - 3 mayonnaises, sauces,
  - potato chips, baby food and chocolate cream – 1 of each.

Of the 33 different food products, 23 differed in composition or characteristics (70%).

The quality and labelling of products sold in Lithuania differed from those sold in Germany: in Germany it is possible to purchase products with a more natural composition - less food additives, sweeteners, etc.

### List of products with a different composition:

- Biscuits **MILKA CHOCO COOKIES** (DE product contains 35% of chocolate pieces, LT only 32%)
- Soya drink **ALPRO SOYA ORIGINAL** with calcium (DE contains 1 food additive, LT – 2)
- Nestle **NESTEA Peach** ice tea (DE contains sugar, LT - sugar + fructose + stevillic glycoside)
- Drink **LIPTON ice tea peach** (DE contains sugar, LT - sugar + fructose + stevillic glycoside)
- **Kellogg's Corn Flakes** - Gold Corn Flakes (in DE product there are no vitamins added, LT contains added vitamins)
- **Potato Chips LAY'S SALTED** (DE contains sunflower oil, LT – palm + sunflower oil)
- Sweet crisp flakes with chocolate **VITALIS** (DE contains sunflower oil, LT – palm oil)
- Flakes **VITALIS** with raspberries
- **NUTELLA** hazelnut spread (DE product contains 7.5% of skimmed milk powder, LT - 6.6%)
- Sweet and sour sauce **UNCLE BEN'S SWEET & SOUR** (DE contains 2.7% of vegetables, LT – 2.6%)
- **YOGURT ACTIVIA** with strawberries (in DE product contains 9% of strawberries in LT - 8.2% of strawberry + thickeners + acidity regulators + dyes. There were differences in flavour and colour of the product: light pink in DE, pink in LT)
- Tuna **RIO MARE** in natural sauce (DE - no flavourings, LT contains celery and onion fragrances)
- Coffee **NESTLE NESCAFE GOLD** (in DE the caffeine content is  $2842 \pm 222$  mg / 100 ml, in LT -  $3477 \pm 271$  mg/100 ml)
- Instant coffee **NESTLE NESCAFE CLASSIC 3 IN 1**
- Black Tea **LIPTON YELLOW LABEL TEA** (DE - no flavourings, LT – contains fragrances)
- **Greisinger Munich** - boiled sausages

- Baby food - BIO HIPPI with turkey
- Coffee Lavazza QUALITA ROSSA
- FANTA soft drink with orange juice
- Brie cheese PRESIDENT with white. mold, 60% fat s m
- Instant cocoa NESQUIK Opti-Start (bag)
- Mayonnaise HELLMANN'S ORIGINAL
- Flakes NESTLE FITNESS

**List of products with no differences:**

- SCHOGETTEN Milk chocolate
- MILKA Alpine milk chocolate
- OREO original cookies
- Coffee JACOBS KRONUNG
- TWININGS EARL GREY TEA
- Dulano – BOCKWURST German smoked and cured pork sausage
- PHILADELPHIA ORIGINAL cheese
- Waffle NESTLE KITKAT EXTRA MILK & COCOA
- NESTLE CINI MINIS flakes
- Garlic sauce HEINZ



## SLOVAKIA

PPT presentation by [REDACTED] (Ministry of Economy of the Slovak Republic, Department of Consumer Protection), CPC Committee meeting on 16/03/2017 + PPT by [REDACTED] (State Veterinary and Food Administration)

22 food products bought in SK and AT were subject to sensory tests, labelling checks, laboratory analysis of qualitative indicators and a safety checks. Tests were carried out by the State Veterinary and Food Administration of the Slovak Republic.

Products were categorised in 3 groups: 9 with no significant differences, 3 with small differences affecting the quality in smaller extend and 10 with bigger differences considerably affecting the quality.<sup>7</sup>

No safety issues were identified and labelling was compliant. Out of 22 products, 9 products did not have differences and 3 products had small differences.

10 products had bigger differences regarding their quality (e.g. composition, taste, and packaging):

4 milk products, 2 beverages, 1 fish product, 1 seasoning, 1 sweet product and 1 tea.

Main differences:

- substitution of animal fats by fats of plant origin, fruit components replaced by colourings and fruit aromas;
- usage of materials with lower proportion of fat;
- lower meat content;
- added sweeteners instead of sugar;
- differing qualitative indicators of components (the size of leafs, weight of solid part);
- different taste, colour of products and quality of packaging.

List of products with significant difference:

- Sold in BILLA - **Alaska cod** - *the weight of the product sold in Austria was 16,9 g heavier than of the product sold in Slovakia.*
- CLEVER - **Mozarella** - *differences in both sensory parameters and real weight.*
- CLEVER - **Orange lemonade** – *differences in colour, taste and ingredients. SK: significant taste of artificial sweeteners, AT: pure orange taste.*
- COCA-COLA - **Coke** - *significant differences in taste. Differences in ingredients: SK – fructosan-glucosic sirup, AT – sugar.*
- KOTÁNY - **Cinamon** – SK: colour: light brown, smell: cinnamon, taste: cinnamon, ash (%) 2,9, moisture (%) 10,2, essential oils (ml/g) 1,5. AT: colour: dark brown, smell: strong cinnamon, taste: pure and significant cinnamon, ash (%) 3,1, moisture (%) 6,1, essential oils (ml/g) 1,7.
- MANNER - **Neapolitaner** - *significant differences in colour of the filling and different taste of the product.*
- MILBONA sold in Lidl - **Emmental** - *product which is being sold in Slovakia DOES NOT have the characteristic structure or look of the emmental cheese, which is well known for light-yellow colour and texture with bigger or smaller holes. Product that is being sold in Austria has the characteristic look, colour and texture.*
- NOMAD FOODS – **IGLO Fish Fingers** - *content of the fish meat 8,8 % more in AT product than in SK product.*

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<sup>7</sup> Agriculture and Fisheries Council meeting on 6 March 2017 Experience of certain EU Member States with dual quality of foodstuffs in free movement within the EU – Information by Hungary and the Slovak Republic - Brussels, 27 February 2017 (OR. en) - 6716/17 - DENLEG 10 - AGRI 92

- **TEEKANNE – Earl Grey Black Tea** – *AT aluminium tea bags that maintain aroma and taste, bigger pieces of tea leafs contribute to better quality of product<sup>8</sup>. In AT tea bags contain 2.0g of tea, in SK – 1.65g.*
- (no brand mentioned in the report) **Vanilla pudding with cream** – *differences in content<sup>9</sup>.*

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<sup>8</sup> "Slovak testing of foodstuffs" – ppt presentation by [REDACTED] – 12/05/2017 – Slovak Perm Rep seminar on dual quality of foodstuffs

<sup>9</sup> Final report – Comparative test of food products sold in Slovak republic and Austria (sent together with Letter from Minister Gabriela Matečná (dual quality of foodstuffs) to Commissioners Jourová, Bienkowska and Andriukaitis on 15/06/2017)

## **SLOVENIA**

### **Slovenia analyses 11 food products, concludes there are no differences in quality<sup>10</sup>**

The Administration of the Republic of Slovenia for Food Safety, Veterinary and Plant Protection has ordered the analysis of 11 food products - **Nutella, Tuc cookies, chocolates Milka, Lindt, Kinder, KitKat, cookies Leibnitz, candy Haribo and instant chocolate beverage Nesquik**, reports Večernji list.

The agency has decided for this step due to the numerous criticisms from the citizens, politicians and a series of Member States who believe that the food produced for the "West" is not the same as the food sent to the "East". **The results found no differences in the quality of the selected products.**

### **Study performed by AFSVSPP (The Administration of the Republic of Slovenia for Food Safety, Veterinary and Plant Protection)<sup>11</sup>**

22 samples were taken in duplicates (eastern vs western EU markets) from the different food groups. Parameters analysed per product were determined depending on product composition and information on the label:

- fat,
- composition of fatty acids (saturated and trans fatty acids), tetraenoic acid and/or milk fat,
- total sugars,
- dry non-fat cocoa solids (determined based on theobromine content),
- nutrition fibre – total,
- artificial food colorants,
- proteins,
- salt content.

Analytical results showed no essential deviations in values declared to those measured in products manufactured for the western versus and eastern markets - measured values of relevant nutritive substances were in general within the admissible tolerance limits.

Comparison of measured values between the two groups of products did not show major differences between products manufactured for the eastern versus western markets, either. Tolerable limits were exceeded in three products.

Essential deviations in values declared to those measured in products were detected in:

- salty snack (manufactured for the western markets): salt content in the product was lower in comparison to the declared value;
- wholemeal biscuits (manufactured for the western markets): fibre content exceeded declared value;

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<sup>10</sup> km-DNS-HR - 18 May 2017 – Summary: Slovenia analyses 11 food products and concludes there are no differences in their quality / Nutella za istočno tržište iste kvalitete kao zapadna Večernji List , Page: 1 , Info: by Sandra Veljković , 18 May 2017, 00:00

<sup>11</sup> PPT presentation of The Administration of the Republic of Slovenia for Food Safety, Veterinary and Plant Protection – Findings related to dual quality of foodstuffs – Slovakia, 31.05.2017

- instant cocoa drink preparation (manufactured for the western markets): showed a lower measured value for the share of cocoa, than that declared on the product;

Slovenian translations of declarations on products intended for the western markets were frequently non-harmonised with the foreign language version.

Responsible inspectors communicated findings on non-compliant composition to the responsible business operators, asking them for relevant clarifications. Legal actions will follow depending on the information obtained. The responsible business operators were requested to rectify non-compliant declarations.

## ONGOING STUDIES

### BULGARIA

Bulgarian accredited laboratories will compare more than 30 types of food products purchased in supermarkets in Germany and Austria with the same products purchased in Bulgarian supermarkets. The inspection will focus on 3 aspects: comparing the labels of the same products sold in Bulgaria and abroad; analysing the correspondence between a product's real content and the nutrition label; and comparing the price of the products.

The Ministry of Agriculture, the Commission for Consumer Protection, and the Federation of Consumers in Bulgaria will also take part in the inspections.

The final results are expected for 15-22 June 2017.<sup>12</sup>

In an analysis undertaken by the Bulgarian Food Safety Agency, popular chocolate, dairy and meat products, beverages, juices and baby foods are currently being analysed.<sup>13</sup>

### CZECH REPUBLIC

A legal study has been concluded in June 2017: it details the European legal framework applicable to the issue of dual quality food and proposes recommendations to address the issue, in particular modifying the UCPD.

### CROATIA – results are included in the summary

Study on dual quality of foods is being conducted at the moment in order to evaluate quality of food sold under the same name, labelling and package.

In a public questionnaire that was the first phase of the study, 70% of HR consumers claimed their scepticism in dual quality of products targeted for so called "Eastern Europe" market.

Survey was conducted among 800 Croats, selecting 27 products to compare (22 foodstuffs, 5 others – detergents, toothpaste etc.); 82% of the participants of the survey find the issue very emotional.

Ms Borzan's people bought comparable products in HR, IT and AT – trying to get same products, of similar expiration phase, transported in safe conditions etc. 5 top laboratories in HR then conducted tests on the samples – sensoric, tasting, chemical and price/labelling information checks.

The MEP plans to present the results on an IMCO hearing with MEP Sehnalová in the EP on 27 September.<sup>14</sup>

This project is initiated by Ms Biljana Borzan and it is coordinated by Croatian Food Agency.<sup>15</sup>

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<sup>12</sup> DG Justice and Consumers Press Review - Reuters: България ще извърши проверки на хранителните продукти заради притеснения относно качеството Focus-News.net , 27 May 2017, 00:00

Министър Румен Порожанов: Идентифицирани са 5 групи изделия, които ще бъдат елемент на анализа за качеството на храните Focus-News.net , 27 May 2017, 00:00

Храните в Източна Европа са с качество, което уврежда здравето, смята Борисов Dariknews.bg , 27 May 2017, 00:00

Второ качество ли е храната, която ядем bTV (Bulgaria) , 28 May 2017, 06:30

Румен Порожанов, министър на земеделието и храните: В края на юни ще е ясно има ли двоен стандарт при храните 24 Chasa Daily , 29 May 2017, 00:00

Prices and labels of food products sold in Bulgaria and Western Europe to be compared for double standards / Сравняват цени и етикети за двойните стандарти Standart Daily , Page: 1;8 , 29 May 2017, 00:00

<sup>13</sup> DG Justice and Consumers Press Review - theguardian.com , Info: by theguardian.com , 29 May 2017, 16:01

<sup>14</sup> Based on report sent by [REDACTED] from the meeting between Commissioner and Ms Borzan on 1/06/2017

<sup>15</sup> Replies from CPC Authorities

### The initiative against double EU standards

[redacted] member of Split's City Council [redacted] said there can be no excuses for exporting lower quality goods to poorer Member States, noting that citizens expect the same food quality regardless of where it is being sold, Slobodna Dalmacija reports. Because of that, City Council member [redacted] said he was starting a *European Civic Initiative* representing a first step of political pressure against European Commission to propose a new law. "When tens of millions Europeans sign the initiative, Brussels will start talking to us differently", City Council member [redacted] announced.<sup>16</sup>

### Romania

Romania launched a test of products collected in its country and called on the cooperation of certain Western countries to collect samples of the same products so that a comparison can be made.<sup>17</sup>

### Slovenia

Ministry of Agriculture, Forestry and Food is supporting a study performed by the National Consumer Association (they are going to compare foodstuffs bought in Austria and Slovenia). Results are expected at the end of June. Till then AFSVSPP is going to perform only comparative study on weight of selected products.<sup>18</sup>

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<sup>16</sup> DG Justice and Consumers Press Review June 12, 2017 - km-DNS-HR Monday - Slobodna Dalmacija: Iz Splita kreće velika peticija protiv dvostrukih EU standarda page: 2 date: Monday, June 12, 2017

<sup>17</sup> , Seminar organised by S&D on Dual quality of foodstuffs on 11/04/2017

<sup>18</sup> PPT presentation of The Administration of the Republic of Slovenia for Food Safety, Veterinary and Plant Protection – Findings related to dual quality of foodstuffs – Slovakia, 31.05.2017

## List of brands/manufacturers with products of different quality, listed in more than one study:

- **COCA-COLA**

- **Coke** - AT / HU – the Hungarian product contains fructose-glucose syrup, the foreign product contains sugar; the study from 2014: scent of the Hungarian product is less full, it contains 0,6% more sugar (its energy content is also higher). Sugar composition is different, the AT contains saccharose also, the Hungarian contains cheaper (corn-based) fructose-glucose syrup;
- **Coke** – SK / AT - significant differences in taste;
- **Coke** – DE / HR – the products differ according to type of sugar they contain (for DE market: sucrose, for HR market: high-fructose corn syrup);
- **Coca Cola ZERO** – DE / HR - COCA COLA ZERO - there is a significant difference in taste of the two analysed products – we could say that it is consumer preference;
- **Fanta Orange** AT / HU – product with sensory difference and different composition;
- **FANTA** soft drink with orange juice – DE / LT
- **Sprite** – CZ sweetened with fructose-glucose syrup, aspartame and acesulfame, DE with sugar.

- **DANONE**

- **Actimel** AT / HU – sensory difference and different composition;
- **Activia Strawberry** – different colorants, different content of fat (CZ: 2,43g DE: 2,93g / 100g), CZ: milk protein added. Sensory test: the best taste results had the products from DE. Statistical similarities were found for products from DE and CZ in comparison with HU (not explained which data were tested). (Czech study from 2017)
- **Activia Strawberry** – DE / HR – significant difference in the list of ingredients (DE product has greater share of strawberries and no listed additives, HR product contains more sugar, which is confirmed by chemical and sensory analysis.
- **YOGURT ACTIVIA with strawberries** – DE /LT (in DE product contains 9% of strawberries in LT - 8.2% of strawberry + thickeners + acidity regulators + dyes. There were differences in flavour and colour of the product: light pink in DE, pink in LT)
- **Activia Yogurt drink** AT / HU – sensory difference and different composition.

- **DR. OETKER**

- **FERRERO**

- **Nutella** – IT / HU – sensory difference; HU is less soft, less well worked out (study from 2014);
- **Nutella** – DE / CZ - higher content of caffeine and theobromine in DE, use of different kinds of cacao powder/different ration of cacao powder in DE, 10 % of protein in the paste in DE  
Sensory test: darker colour of the product in DE than in CZ. (Czech study from 2017)
- **Nutella** – DE / HR - HR product contains whey powder and a small percentage skimmed milk powder (6.6%), while product from DE contains only skimmed milk powder (7.5%); significant difference in spreadability of the product, confirmed by physical and chemical analyses (HR product has higher pour point, which means it is more difficult to spread it at the same temperature; significant difference in colour, consistency, smell and taste of the product (HR product Croatia is sweeter, denser and has more of a cocoa flavour, while the product from Germany is darker, has hazelnut flavour and spreads more easily; the product is by 28% more expensive in Croatia;
- **Nutella** – DE / LT - DE product contains 7.5% of skimmed milk powder, LT - 6.6%.

- **JACOBS DOUWE EGBERTS**

- **Jacobs Kronung** – CZ coffee has almost 1/3 higher caffeine content;
- **Jacobs Kronung** – AT / HU – sensory difference.
- **Jacobs original 3v1** – AT, DE/ CZ: different ratios of sugar, fatty acids and quantity of coffee. Sensory test: significant difference in colour of the powder. (Czech study from 2017)

- **KOTÁNY**

- **Cinnamon** AT / HU – sensory difference;
- **Cinnamon** – SK: colour: light brown, smell: cinnamon, taste: cinnamon, ash (%) 2,9, moisture (%) 10,2, essential oils (ml/g) 1,5. AT: colour: dark brown, smell: strong cinnamon, taste: pure and significant cinnamon, ash (%) 3,1, moisture (%) 6,1, essential oils (ml/g) 1,7;
- **Cinnamon minced** AT / HU – sensory difference;
- **Oregano** AT / HU – sensory difference;
- **Bay leaf** AT / HU – sensory difference.

- **MANNER**

- **Neapolitaner wafers** – AT / SK significant differences in colour of the filling and different taste of the product;
- **Manner Wein Feinste Eierbiskotten** AT / HU – sensory difference
- **Manner Wien Crispy Wafel with chocolate filling** AT / HU – sensory difference
- **Manner Wien Crispy Waffeln with Hazelnuts filling** AT / HU – sensory difference
- **Wafer sweets** – almost identical nutritional content, the consistency of the foreign wafer has less loose structure than the HU (studies from 2014).

- **NOMAD FOODS**

- **IGLO Fish Fingers** - products vary in meat content. CZ product contains about 7% less meat than the one from DE. The raw material used is the same;
- **IGLO Fish fingers** AT, DE / HU - the fish is thicker in the breaded fish finger in the foreign product, therefore with the same indicated number of fingers the Hungarian product contains less fish by a finger;
- **IGLO Fish Fingers** - content of the fish meat 8, 8 % more in AT product than in SK product. AT, DE: declared 65 % of meat content (analytical results: 63.8 %) CZ, HU, SK: declared 58 % of meat content (analytical results: 50.2 %) (Czech study from 2017)

- **NESTLÉ**

- **Nestlé Cookie Crisp cereals** PL / HU – sensory difference;
- **Nesquik cacao powder** AT / HU – sensory difference, different ratios of cacao powder and added vitamins in DE vs CZ, SK, HU. Lower content of cacao dry matter in DE;
- **Instant cocoa NESQUIK Opti-Start** (bag) – DE / LT
- **Flakes NESTLE FITNESS** – DE / LT
- **Gourmet Gold** (cat's food) made in EU / HU – sensory difference;
- **Maggi beef soup** AT / HU - in the list of components that is in line with decreasing amount, palm oil is the fourth in the foreign product and second in the Hungarian one;
- **Nescafe 3in1** AT / HU – sensory difference and different composition;



- Instant coffee **NESTLE NESCAFE CLASSIC 3 IN 1** – DE / LT
  - Coffee **NESTLE NESCAFE GOLD** – DE / LT (in DE the caffeine content is  $2842 \pm 222$  mg / 100 ml, in LT -  $3477 \pm 271$  mg/100 ml)
  - **Nesquik, YA BREAKFAST CEREAL with taste of chockolate with added vitamins and minerals** – DE / HR - the list of ingredients on the label referring to cereals, especially the ingredient included in allergens, is not in compliance with the EU Regulation on Food Consumer Information;
  - **NESTEA – Ice Tea Lemon CZ** product sweetened with sugar, fructose and steviol glycosides; DE with sugar only (the content of sugar is higher). CZ product contains 40% less tea extract;
  - **NESTEA ICE TEA PEACH** – DE / HR - products differ according to ingredients listed on the label: for HR market: fructose and sweetener (steviol glycoside), for DE market: sucrose. As the consequence, energy value of the product from HR is smaller than the product from DE;
  - **Nestle NESTEA Peach ice tea** – DE / LT - DE contains sugar, LT - sugar + fructose + stevillic glycoside;
- **TEEKANNE**
    - **Earl Grey Black Tea** – AT / SK - aluminium tea bags maintain aroma and taste, bigger pieces of tea leafs contribute to better quality of product;
    - **Earl Grey Black Tea** - AT / HU – different components and sensory difference;
    - **Green Tea** - AT/CZ - different ratios of caffeine and tea extract. Sensory test: significant differences (no fixed ratios of ingredients for filling of tea bags). (Czech study from 2017)
- **UNILEVER**
    - **Rama** – CZ fat content 60%, DE – 70%;
    - **Vienetta Ice cream** AT / HU – different composition;
    - **Knorr Fix Carbonara** AT / HU - sensory difference and different composition;
    - **Knorr Beef bouillon** AT / HU - the Hungarian product contains flavor enhancer, the foreign one has label of being free of it.

## List of brands/manufacturers with more than one product of different quality according to CZ, HU and HR studies

- **ALFRED RITTER GmbH & Co.**
  - **Ritter SPORT marzipan** AT, DE / HU – sensory difference;
  - **Ritter SPORT dark chocolate filled with marzipan** – same sugar and fat content, but still the dark chocolate cover is harder to melt in the mouth in the HU (study from 2014).
- **DR. OETKER GmbH**
  - **PAULA chocolate-vanilla pudding** DE / HU – sensory difference;
  - **Vanillin sugar** AT / HU – sensory difference;
  - **Brownies baking mix** DE / HU – sensory difference and different components;
  - **Bourbon Vanilla sugar** AT / HU – sensory difference and different components;
  - **Choco pudding** AT / HU - the foreign product has only cocoa powder as flavouring, the pudding cooked is creamier, darker and tastes more intense;
  - **Vitalis ChocoMüsli** DE, AT / HU - sensory difference and different components;
  - **Pizza Ristorante** AT/CZ, SK, HU - different declared ratios of ingredients and garnitures (mostly cheese), same size of packaging, different weight
- **FERRERO**
  - **Nutella** – IT / HU – sensory difference;
  - **Nutella** – HU is less soft, less well worked out (study from 2014);
  - **Rafaello** – BE, AT / HU – sensory difference.
- **HARIBO**
  - **Haribo Original Happy Cola** AT / HU – sensory difference
  - **HARIBO - HARRIBO HAPPY COLA** – DE / HR - large amount of the total sugar in products for the DE market, proven both in sensory and chemical analysis; DE product has significantly greater amount of total sugar than the amount on the label, which is not in compliance with the Guiding document (EC) on tolerances for nutrient values declared on a labels; the product is 39% more expensive in Croatia
  - **Haribo Goldbären** AT / HU – sensory difference and different components
- **MONDELEZ**
  - **Milka milk chocolate** AT / HU – different-originated, higher quality cocoa raw material in case of darker, foreign product;
  - **Milka chocolate with whole hazelnuts 100g** AT, DE / HU – sensory difference and different components;
  - **BelVita breakfast biscuits with cacao and chocolate** DE, AT / HU – sensory difference;
  - **Tuc original crackers** AT (made in BE by LU) / HU - sensory difference and different components;

- **MILKA, MILK CHOCOLATE WITH ALPINE MILK AND WHOLE HAZELNUTS** – DE / HR - for DE market: one emulsifying agent (soya lecithin), for HR market: two emulsifying agents (soya lecithin and E476, used in chocolate production as replacement for cacao); the product is by 14% more expensive in Croatia;
- Biscuits **MILKA CHOCO COOKIES** – DE / LT - (DE product contains 35% of chocolate pieces, LT only 32%);
- **PHILADELPHIA SPREADABLE CREAM CHEESE - EXTRA FAT** – DE /HR - German consumers are informed better, since the number of servings is marked on the label contained in the pre-package (mandatory pursuant to the EU Regulation on Food Consumer Information) and the percentage of the nutrients per serving as percentage of Recommended Dietary Allowance for an average adult; the product is by 47% more expensive in Croatia.

- **SPAR**

- **French fraises** AT, DE / HU – sensory difference;
- **S budget fish-sticks** AT / HU – cod or hake instead of Alaskan salmon fillet in the Hungarian product; in the foreign product the fish is white, juicier, smoother;
- **S-Budget Choco pudding** AT / HU – sensory difference and different components;
- **S-Budget Gouda in slices** AT / HU - the difference in protein content in the nutrition values suggests different quality of raw material;
- **S-Budget toast bread** AT / HU - additive-free wheat bread abroad, the Hungarian version contains 8 additives;
- **S-Budget tortelloni with ricotta cheese** AT, Lichtenstein / HU – sensory difference and different components;
- **Sugo meat / DESPAR ragu** (made in AT / made in IT) – sensory difference and different components;
- **S-Budget chips paprika** DE, AT / HU – sensory difference and different components;
- **S-Budget chips cream and onion** DE, AT / HU – sensory difference and different components;
- **S-Budget gherkins** AT, DE / HU – sensory difference and different components.