

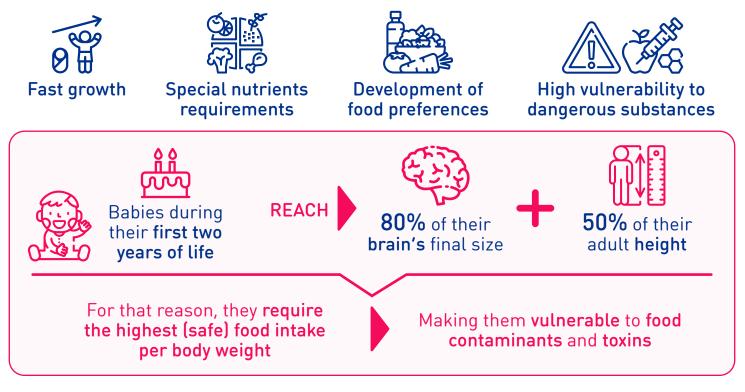
Commercial baby foods have been increasingly criticized over the last few ears for a number of reasons such as their nutritional quality or the prevalence of contaminants. Unfortunately, consumers in general are not aware of their unique and exceptional characteristics.

Commercial Baby Foods:



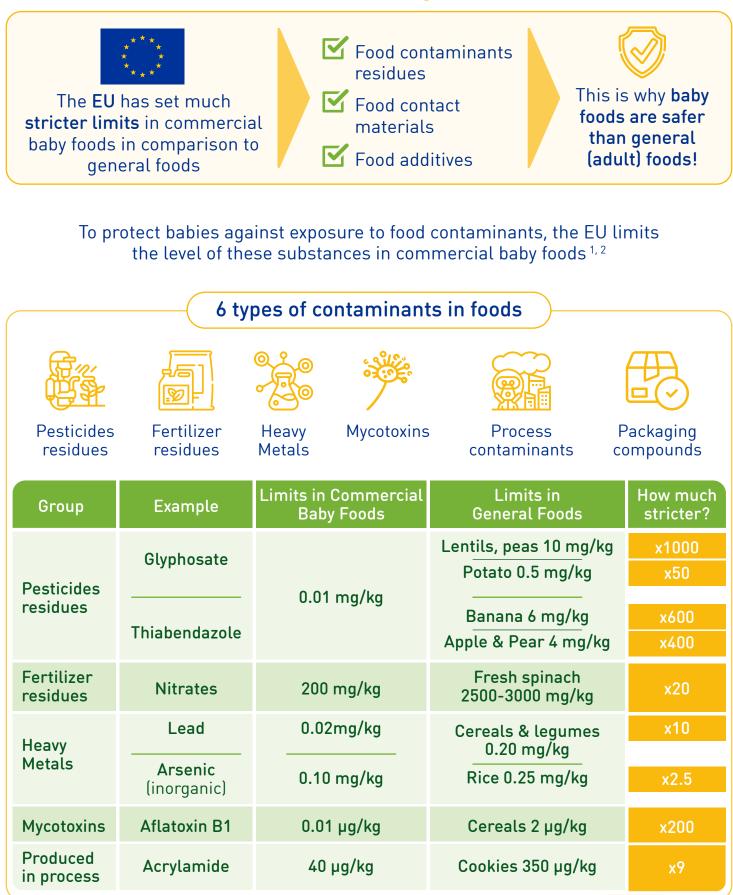
Are used as complementary feeding

Complementary feeding represents a "critical time window" in the development of a baby

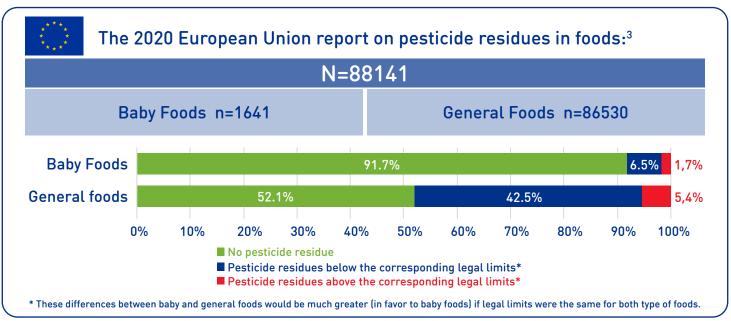


Commercial baby foods in comparison to common foods are generally: Safer,more Nutritious and more Natural

Safety



Commercial baby foods are the foods with the least pesticide residue levels in the European market



nutrition

Specifically designed by experts according to babies' needs

Comparison of the latest scientific recommendations for nutrition and development of infants and young children
National & International ediatric Organizations (i.e. ESPGHAN^{4,5}, AAP⁶)
International (i.e. EFSA ^{7,8}, WHO^{9,10})

Commercial Baby Foods are designed and developed...



...based on EU legislation that establishes the content of protein, carbohydrates, fats, sodium, vitamins and minerals in commercial baby foods¹ to promote healthy dietary habits

- Assuring an adequate intake of carbohydrates, protein and fat
- Assuring high protein quality
- Assuring iron content
- Avoiding excessive sodium intake
- Avoiding sweet and salty foods

naturalness

Commercial Baby Foods are more natural than general foods

Why?

EP /

Because many additives and other substances are not allowed in commercial baby foods according to EU legislation (preservatives, glutamates, nitrates, artificial sweeteners & colors)

Because the farming practices of the ingredients used in baby foods are pesticide controlled.

How do we measure Food Naturalness?

With a scientific validated Index named the **Food Naturalness Index (FNI)**^{11, 12} that measures the degree of naturalness in food products taking into account legal, scientific-technical and consumer perspectives.

The FNI measures the degree of food naturalness on a scale from 1 to 5.



The **four criteria** used in the calculation are:

- The different **farming practices** that according to legislation have differences in the use of pesticides, fertilizers and limits of contaminants.
- The number of additives
- The **number of unnecessary/unexpected ingredients** (ingredients that "aren't found" in a normal kitchen cupboard)
- The number of processed ingredients



An example of FNI (Food Naturalness Index) in baby vs. Adult pasta meal

Criteria	Macaroni bolognese (adults)	Spaghetti with meat and veggies (Baby food)
Farming practices	Conventional	Pesticides controlled*
N ^o additives	2 (E451i; modified corn starch)	0
N ^o of unnecessary/ unexpected ingredients	0	1 (rice flour)
N ^o of processed ingredients	4 (refined cereals, egg powder, sunflower oil, sugar)	1 (refined cereals)
FNI	2.75 (slightly natural)	4.00 (very natural)
		*stricter limits vs. general foods





- Commission Directive 2006/125/EC of 5 December 2006 on processed cereal-based foods and baby foods for infants and young children (Codified version) Off. J. Eur. Union. 2006;339:16–35. COMMISSION REGULATION (EC) No 1881/2006 of 19 December 2006 setting maximum levels for certain contaminants in foodstuffs.
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- American Academy of Pediatrics (AAP). Starting Solid Foods. Available online: https://www.healthychildren.org/English/ages-stages/baby/feeding-nutrition/Pages/Switching- To-Solid-Foods.aspx (accessed on 10 September 2018). 6.

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- September 2018). EFSA. Scientific Opinion on the appropriate age for introduction of complementary feeding of infants. EFSA J. 2019, 17, 5780. EFSA. Scientific Opinion on nutrient requirements and dietary intakes of infants and young children in the European Union. EFSA J. 2013, 11, 3408. WHO. Guiding Principles for Complementary Feeding of the Breastfed Child. 2003. WHO. Ending Inappropriate Promotion of Commercially Available Complementary Food for Infants and Young Children between 6 and 36 Months in Europe. 2019. Sanchez-Siles LM, Michel F, Román S, Bernal MJ, Philipsen B, Haro JF, Bodenstab S, Siegrist M. The Food Naturalness Index (FNI): An integrative tool to measure the degree of food naturalness. Trends in Food Science & Technology 11 (2019) 681–690 Fabienne Michel, Luis Manuel Sanchez-Siles, Michael Siegrist. Predicting how consumers perceive the naturalness of snacks: The usefulness of a simple index, Food Quality and Preference, Volume 94, 2021, 104295, ISSN 0950-3293, https://doi.org/10.1016/j.foodqual.2021.104295. 12.