

CHALLENGES AND OPPORTUNITIES FOR IMPLEMENTING NAMS:

Food & Feed Regulatory Context

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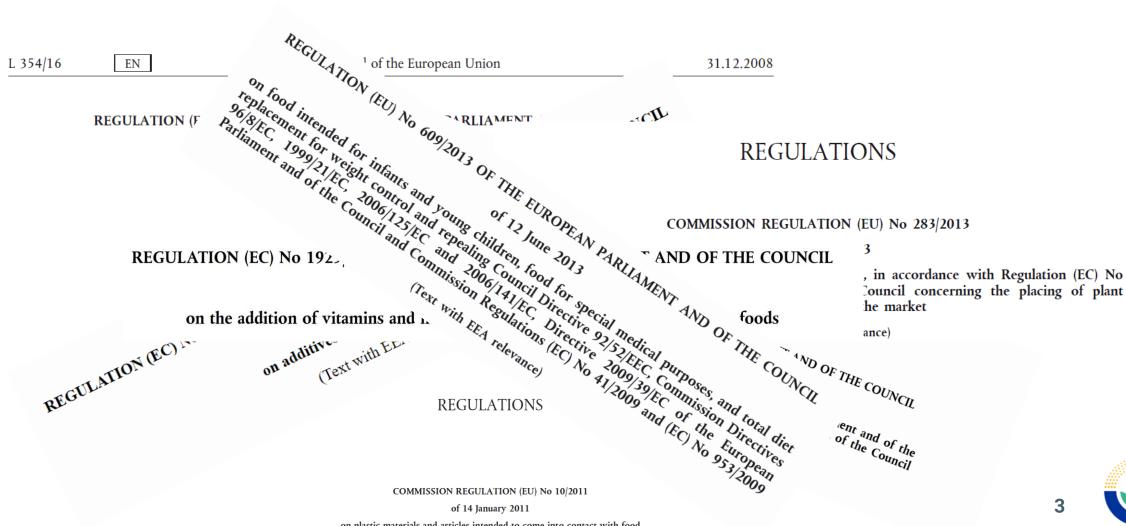


SETTING THE EFSA SCENE (I)



Chemical contaminants

SETTING THE EFSA SCENE (II)



of 14 January 2011

SETTING THE EFSA SCENE (III)





EFSA Journal 2012;10(7):2760

GUIDANCE doi:10.2903/j.efsa.2021.6555 Guidance on the preparation and

ADOPTED: 26 January 2021 doi: 10.2903/j.efsa.2021.643.

GUIDANCE

Scientific Guid

sm

application for authorisation of a not of Regulation (EU) 2015/228 EFSA Panel on Dietetic Products, Nutri Maged Younes, Gabriele A Peter Fürst, Ursula Gunder Peter Moldeus, Sabina Pat Matthew Wright, Romu Dominique Turck, Marina Hainanan Vara Joop De Knecht, Ullrika Sal Alexandra

GUIDANCE



ADOPTED: 15 September 2021 doi: 10.2903/j.efsa.2021.6851

Scientific Guidance for the submission of dossiers on Food **Enzymes**

EFSA Panel on Food Contact Materials, Enzymes and Processing Aids (EFSA CEP Panel), Claude Lambré, José Manuel Barat Baviera, Claudia Bolognesi, Pier Sandro Cocconcelli. Riccardo Crebelli, David Michael Gott, Konrad Grob, Evgenia Lampi, Marcel Mengelers, Alicja Mortensen, Gilles Rivière, Inger-Lise Steffensen, Christina Tlustos, Henk Van Loveren, Laurence Vernis, Holger Zorn, Boet Glandorf, Lieve Herman, Jaime Aguilera, Magdalena Andryszkiewicz, Ana Gomes, Natalia Kovalkovicova, Yi Liu, Sandra Rainieri and Andrew Chesson

Susan Fairweather-Tait, Andronivi Nacha Moniva Nacha Marina Harny 7 McArdie Andronivi Nacha Moniva Nacha Marina Nacha Moniva Nacha Marina Nacha Marina Nacha Marina Nacha Marina Nacha Nac Juban Fanweduler-Tall, Manila Remonent, Rate Harry J McArdle, Androniki Naska, Monika Harry J McArdle, Androniki Naska, Misonco Ciani Harry Dentieva Volanda Cana Alfonco Ciani Harry J McArdle, Androniki Naska, Monika Harry J McArdle, Androniki Naska, Monika Yolanda Sanz, Alfonso Siani Kristina Pentieva, Peter Willatts, Karl-Heinz En-Marco Vinceti, Peter Willatts, Tocef Schlätte Marco Poulcen Senno Salminen Tocef Schlätte Morten Poulcen Marco Vinceti, Peter Willatts, Karl-Heinz E.; Marco Vinceti, Peter Willatts, Karl-Heinz E.; Seppo Salminen, Josef Schlatte, Seppo Salminen, Josef Hans Verhage. Morten Poulsen, Sesmaisons-Lecarré, Hans Verhage. Agnès de Sesmaisons-Lecarré, Hans Verhage. ு, reter Moldeus, Saமார் ordy, Maria Carfi, Carla Martino, __usen, Detlef Wölfle,* Matthew varigine, is-, rolly Boon, Kevin Chipman, Joop De Knecht, Karin Nørby, Laganaro, Carla Martino, Alexandra Tara, Giorgia Vianello and Karl-Heinz Engel



NAMs AND EFSA

SCIENCE-POLICY INTERFACE

The Commission will:

 foster multidisciplinary research and digital innovations for advanced tools, methods and models, and data analysis capacities¹⁰² to also move away from animal testing;



EC policy

EFSA strategy 2027

STRATEGIC OBJECTIVE 2

Ensure preparedness for future risk analysis needs

KEY ACTIONS

 Develop and integrate new approach methodologies (NAMs) and omics for regulatory risk assessment



NAMs landscape



Safety testing and chemical risk assessment need to impovate in order to reduce dependency on animal testing but also to improve the quality, efficiency and speed of chemical hazard and risk assessments.

WHERE ARE WE WITH NAMS?

Investment in NAMs

- √ 32 EFSA-launched projects
- ✓ Areas addressed: Toxicokinetics, toxicodynamics, systems toxicology, modelling, read-across, data management: Emphasis on case studies
- ✓ Many collaborations: ECHA, JRC, MS
- ✓ Many project collaborations: PARC, ASPIS, APCRA, etc

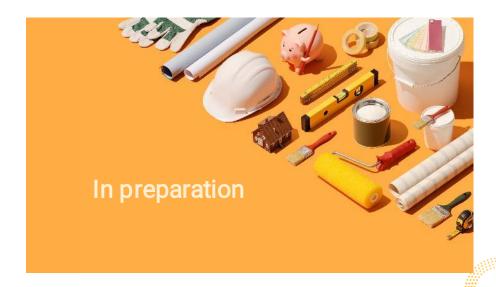
EFSA Guidance documents

- ✓ Grouping of chemicals
- ✓ Mixture assessment
- ✓ Pesticide residues
- ✓ Read-across (under development)



EFSA GUIDANCE DOCUMENTS

- Guidance on the Use of the Read-
- across Approach in Food Safety
- Assessment
- 6 EFSA Scientific Committee



OUTSOURCED PROJECTS - EXAMPLES

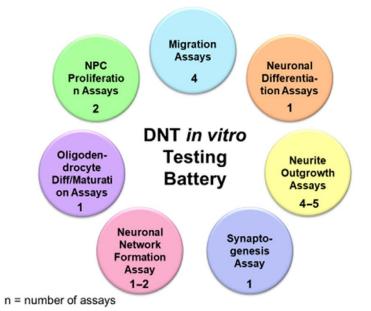


SCIENTIFIC OPINION

ADOPTED: 21 April 2021 doi: 10.2903/j.efsa.2021.6599

Development of Integrated Approaches to Testing and Assessment (IATA) case studies on developmental neurotoxicity (DNT) risk assessment

EFSA Panel on Plant Protection Products and their Residues (EFSA PPR Panel),



Organisation for Economic Co-operation and Development

Guidance on Evaluation of Data from the Developmental Neurotoxicity (DNT) In-Vitro Testing Battery

Project 4.124: New Guidance Document on Developmental neurotoxicity (DNT) in vitro assays			
Lead:			EC (EFSA, JRC)/US/DK
Inclusion in	work plan:		2017
Project	status	and	

WORK PLAN FOR THE TEST GUIDELINES PROGRAMME (TGP)



THE CHALLENGES

Lack of NAM data submitted to EFSA

- ✓ Guidance documents are 'young'
- NAM-based data remain optional

Need for confidence building

- ✓ Validated NAMs: performance standards, right chemicals, reproducibility, etc...
- ✓ Change in concept: NAMs are not a 1-to-1 replacement of a 90-d study
- ✓ Benchmarking and coverage of potential adversity
- ✓ Fit-for-purpose and ready-to-use
- ✓ Identification of low toxicity compounds



HOW CAN WE PROGRESS ANIMAL-FREE RISK ASSESSMENT?

Global blueprint

Working together

Efficient validation process

Adhere to MAD principle

1S1A

Capacity building



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