

Reference List of all relevant peer-reviewed publications from the open literature that were submitted for the Renewal of Approval (AIR2) of Glyphosate in 2012 and during EU peer-review

Metabolism and Residue Data

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The following table lists the relevant publications from the open literature that were selected for inclusion in the renewal dossier as per Article 8.5 of Regulation (EC) 1107/2009.

The publications were legally obtained by Monsanto from the public literature respecting in full all copyrights and are included in Document K.

The Category is defined as per 'Methodology paper' (Carr K.H and Bleeke M.S., 2012) and is listed in the Category column. (Some publications are included in more than one dossier section and may have been assigned a different category for each section, in which case both are listed by section number.)

The Evaluation/Translation column includes the following information:

- 'K' indicates that a Tier II-type summary and a rating according to Klimisch *et al.*, 1997 is included in Document M for the publication
- 'T' indicates that an English translation of the publication is provided

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Section 4 - Metabolism and residue data

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Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evalu- ation / Transla- tion
IIA 6.10	Ando C, Segawa R, Gana C, Li L, Walters J, Sava R, Barry T, Goh KS, Lee P, Tran D, White J, Hsu J	2003	Dissipation and offsite movement of forestry herbicides in plants of importance to native Americans in California National Forests. <i>Bulletin of Environmental Contamination and Toxicology</i> 71 (2):354-361. DOI 10.1007/s00128-003-0171-5.		
IIA 6.10	Arregui MC, Lenardon A, Sanchez D, Maitre MI, Scotta R, Enrique S	2004	Monitoring glyphosate residues in transgenic glyphosate-resistant Soybean. <i>Pest Management Science</i> 60 (2):163-166. Doi 10.1002/Ps.775	1	
IIA 6.10	Bohm GMB, Genovese MI, Pigosso G, Trichez D, Rombaldi CV	2008	Residues of glyphosate and aminomethylphosphonic acid and levels of isoflavones in BRS 244 RR and BRS 154 soybean. <i>Ciência e Tecnologia de Alimentos</i> 28:192-197	1	
IIA 6.10	Bresnahan GA, Manthey FA, Howatt KA, Chakraborty M	2003	Glyphosate applied preharvest induces shikimic acid accumulation in hard red spring wheat (<i>Triticum aestivum</i>). <i>Journal of Agricultural and Food Chemistry</i> 51 (14):4004-4007. Doi 10.1021/Jf0301753.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 6.10	Caierao E, Acosta ADS	2007	Industrial suitability for malting of grains from desiccated pre-harvest barley. Pesquisa Agropecuaria Brasileira 42 (9):1277-1282	1	
IIA 6.10	Cataneo AC, Déstro GFG, Ferreira LC, Chamma KL, Sousa DCF	2003	Glutathione S-transferase activity on the degradation of the herbicide glyphosate in maize (Zea mays) plants. Planta Daninha 21 (2):307-312. DOI: 10.1590/S0100-83582003000200017	1	
IIA 6.10	Cessna AJ, Darwent AL, Townley-Smith L, Harker KN, Kirkland KJ	2002	Residues of glyphosate and its metabolite AMPA in field pea, barley and flax seed following preharvest applications. Canadian Journal of Plant Science 82 (2):485-489	1	
IIA 6.10	Duke SO	2011	Glyphosate Degradation in Glyphosate-Resistant and -Susceptible Crops and Weeds. J Agric Food Chem 59 (11):5835-5841. DOI: 10.1021/jf102704x.	1	
IIA 6.10	Duke SO, Rimando AM, Pace PE, Reddy KN, Smeda RJ	2003	Isoflavone, glyphosate, and aminomethylphosphonic acid levels in seeds of glyphosate-treated, glyphosate-resistant soybean. Journal of Agricultural and Food Chemistry 51 (1):340-344. Doi 10.1021/Jf025908i.	1	
IIA 6.10	Gimou MM, Charrondiere UR, Leblanc JC, Poullot R	2008	Dietary exposure to pesticide residues in Yaounde: the Cameroonian total diet study. Food Addit Contam Part A Chem Anal Control Expo Risk Assess 25 (4):458-71. DOI: 10.1080/02652030701567475.	1	
IIA 6.10	Granby K, Vahl M	2001	Investigation of the herbicide glyphosate and the plant growth regulators chlormequat and mepiquat in cereals produced in Denmark. Food Additives and Contaminants 18 (10):898-905	1	
IIA 6.10	Harris CA, Gaston CP	2004	Effects of refining predicted chronic dietary intakes of pesticide residues: a case study using glyphosate. Food Additives and Contaminants 21 (9):857-864. Doi 10.1080/02652030412331282385.	1	

Annex point/ reference number	Author(s)	Year	Title Citation	Category	Evaluation / Translation
IIA 6.10	Huther L, Drebes S, Lebzien P	2005	Effect of glyphosate contaminated feed on rumen fermentation parameters and in sacco degradation of grass hay and corn grain. Archives of Animal Nutrition 59 (1):73-79. Doi 10.1080/17450390512331342403.	1	
IIA 6.10	Lorenzatti E, Maitre MI, Argelia L, Lajmanovich R, Peltzer P, Anglada M	2004	Pesticide residues in immature soybeans of Argentina croplands. Fresenius Environmental Bulletin 13 (7):675-678	1	
IIA 6.10	Low FL, Shaw IC, Gerrard JA	2005	The effect of <i>Saccharomyces cerevisiae</i> on the stability of the herbicide glyphosate during bread leavening. Letters in Applied Microbiology 40 (2):133-137	1	
IIA 6.10 Also listed under IIA 5.10	Nougadère A, Reninger J-C, Volatier J-L, Leblanc J-C	2011	Chronic dietary risk characterization for pesticide residues: A ranking and scoring method integrating agricultural uses and food contamination data. Food and Chemical Toxicology 49 (7):1484-1510. DOI: 10.1016/j.fct.2011.03.024.	1	
IIA 6.10	Reddy KN, Rimando AM, Duke SO, Nandula VK	2008	Aminomethylphosphonic acid accumulation in plant species treated with glyphosate. J Agric Food Chem 56 (6):2125-30. DOI: 10.1021/jf072954f.	1	
IIA 6.10	Rojano-Delgado AM, Cruz-Hipolito H, De Prado R, Luque de Castro MD, Franco AR	2012	Limited uptake, translocation and enhanced metabolic degradation contribute to glyphosate tolerance in <i>Mucuna pruriens</i> var. utilis plants. Phytochemistry 73 (0):34-41. DOI: 10.1016/j.phytochem.2011.09.007.	2	K
IIA 6.10 Also listed under IIA 7.13	Simonsen L, Fomsgaard IS, Svensmark B, Spliid NH	2008	Fate and availability of glyphosate and AMPA in agricultural soil. Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes 43 (5):365 - 375. DOI: 10.1080/03601230802062000.	1	
IIA 6.10 Also listed under IIA 8.16	Wagner R, Kogan M, Parada AM	2003	Phytotoxic activity of root absorbed glyphosate in corn seedlings (<i>Zea mays</i> L.). Weed Biology and Management 3:228-232	1	

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