



Federaal Agentschap
voor de Veiligheid
van de Voedselketen

Monitoring of T-2 and HT-2 toxins in food in the frame of the official control programme in Belgium (FASFC)

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Commission Recommendation 2013/165

- Commission Recommendation of 27 march 2013 on the presence of T-2 and HT-2 toxin in cereals and cereal products
- Monitoring of T-2 and HT-2 toxin in cereal and cereal products
- Indicative levels for the sum of T-2 and HT-2: repetitive findings at higher concentration should initiate further investigations



Commission Regulation (EC) No 401/2006

- Sampling and analysis are performed in accordance with Commission Regulation (EC) No 401/2006 of 23 February 2006 laying down the methods of sampling and analysis for the official control of the levels of mycotoxins in foodstuffs.
- → representative sample!
- → complete homogenisation of the sample by grinding and mixing



Monitoring of T-2 toxins in Belgium

Matrix	T-2 Toxins											
	2011				2012				2013 (07082013)			
	N° samples	Maximum	Mean	Minimum	N° samples	Maximum	Mean	Minimum	N° samples	Maximum	Mean	Minimum
Cereal-based babyfood, B2C	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	5	< 5,0	< 5,0	< 5,0
Processed cereal-based food for infants and young children, B2B	/	/	/	/	/	/	/	/	1 (5)	< 5,0	< 5,0	< 5,0
Blonde malt, B2B	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Cereal flour, B2B	10	< 25,0	< 25,0	< 25,0	10	28,2	< 25,0	< 25,0	13 (15)	< 25,0	< 25,0	< 5,0
Corn flour, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	2 (5)	< 5,0	< 5,0	< 5,0
Corn flour, B2B	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 5,0
Polenta, B2B	4	< 25,0	< 25,0	< 25,0	/	/	/	/	/	/	/	/
Paste, B2C	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	4 (10)	< 25,0	< 25,0	< 5,0
Corn-based paste, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Corn chips, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
tortilla, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 10,0	< 10,0	< 10,0
Bread, B2C	20	< 25,0	< 25,0	< 25,0	20	30,4	< 25,0	< 25,0	34 (50)	< 25,0	< 25,0	< 5,0
Popcorn, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	0 (5)	*	*	*
Semolina, B2C	/	/	/	/	10	< 25,0	< 25,0	< 25,0	6 (10)	< 25,0	< 25,0	< 5,0
Oat-based breakfast cereals, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 5,0
Corn-based breakfast cereals, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Corn-based beer, B2C	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 2,5	5	< 25,0	< 25,0	< 2,5
Beer, B2C	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 10,0	< 2,5	5	< 25,0	< 25,0	< 2,5
Flaked oats, B2C	/	/	/	/	/	/	/	/	3 (5)	10,1	/	< 5,0
Cereals, B2B	/	/	/	/	/	/	/	/	0 (10)	*	*	*
Dried mushrooms, B2C	/	/	/	/	/	/	/	/	0 (5)	*	*	*
	Total = 166				Total = 145				Total = 118 (180)			



Monitoring of HT-2 toxins in Belgium

Matrix	HT-2 Toxins											
	2011				2012				2013 (07082013)			
	N° of samples	Maximum	Mean	Minimum	N° of samples	Maximum	Mean	Minimum	N° of samples	Maximum	Mean	Minimum
Cereal-based babyfood, B2C	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	5	7,6	< 5,0	< 5,0
Processed cereal-based food for infants and young children, B2B	/	/	/	/	/	/	/	/	1 (5)	< 5,0	< 5,0	< 5,0
Blonde malt, B2B	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Cereal flour, B2B	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	13 (15)	< 25,0	< 25,0	< 5,0
Corn flour, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	2 (5)	< 5,0	< 5,0	< 5,0
Corn flour, B2B	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 5,0
Polenta, B2B	4	< 25,0	< 25,0	< 25,0	/	/	/	/	/	/	/	/
Paste, B2C	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 25,0	4 (10)	< 25,0	< 25,0	< 5,0
Corn-based paste, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Corn chips, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
tortilla, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Bread, B2C	20	< 25,0	< 25,0	< 25,0	20	< 25,0	< 25,0	< 25,0	34 (50)	< 25,0	< 25,0	< 5,0
Popcorn, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	0 (5)	*	*	*
Semolina, B2C	/	/	/	/	10	< 25,0	< 25,0	< 25,0	10	< 25,0	< 25,0	< 5,0
Oat-based breakfast cereals, B2C	10	35,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	6 (10)	< 25,0	< 25,0	< 5,0
Corn-based breakfast cereals, B2C	10	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0	5	< 25,0	< 25,0	< 25,0
Corn-based beer, B2C	10	< 25,0	< 25,0	< 2,5	10	< 25,0	< 25,0	< 2,5	5	< 25,0	< 25,0	< 2,5
Beer, B2C	10	< 25,0	< 10,0	< 2,5	10	< 25,0	< 10,0	< 2,5	5	< 25,0	< 25,0	< 2,5
Flaked oats, B2C	/	/	/	/	/	/	/	/	3 (5)	5,3	/	< 5,0
Cereals, B2B	/	/	/	/	/	/	/	/	0 (10)	*	*	*
Dried mushrooms, B2C	/	/	/	/	/	/	/	/	0 (5)	*	*	*
	Total = 166				Total = 145				Total = 118 (180)			

