

SUPPLEMENTARY DATA

Table S1. Summary of the reductions of Hg contents in the bioaccessible fraction obtained after the gastrointestinal digestion of standards solutions [1 mg/L of Hg(II) or methylmercury (CH₃Hg)] or food with the addition of various strains of *Saccharomyces cerevisiae*. Values of the bioaccessible fraction expressed as ng/mL of standard solution or ng/g of food.

Samples	Conditions of the gastrointestinal digestion	Bioaccessible fraction	Reduction
Standard Hg(II)	w/o yeast	9200 ± 7 ^a	78-96%
	w/yeasts All <i>S. cerevisiae</i> strains	404-2241 ^b	
Standard CH ₃ Hg	w/o yeast	8432 ± 57 ^a	64-96%
	w/yeasts All <i>S. cerevisiae</i> strains	324-3028 ^b	
Swordfish	w/o yeast	518 ± 30 ^a	No reduction
	w/yeast strains VRB, T73 and Ultralevura	519-628 ^b	
Mushroom	w/o yeast	427 ± 29 ^a	55-74%
	w/yeast strains VRB, T73 and Ultralevura	112-193 ^b	

^a Contents of Hg in the bioaccessible fraction obtained after applying the in vitro digestion to standard solutions or foods in the absence of *Saccharomyces cerevisiae*. Values expressed as mean ± SD (n=3)

^b Contents of Hg in the bioaccessible fraction obtained after applying the in vitro digestion to standard solution or food in the presence of several strains of *Saccharomyces cerevisiae*. Values expressed as the range of the means of several assays.

Table S2. Summary of the effects of several compounds [cysteine (Cys), albumin (BSA), copper (Cu) or calcium (Ca)] on the retention of Hg by *Saccharomyces cerevisiae* BY4741 during the gastrointestinal digestion of standards solutions [1 mg/L of Hg(II) or methylmercury (CH₃Hg)]. Values expressed as ng of Hg (mean \pm SD, n=3).

Samples	Conditions of the gastrointestinal digestion	Yeast retention
Standard Hg(II)	w/yeasts w/o Cys or BSA	3932 \pm 337
	w/yeasts w/Cys	152 \pm 16
	w/yeasts w/BSA	1342 \pm 65
Standard CH ₃ Hg	w/yeast w/o Cys or BSA	6271 \pm 103
	w/yeasts w/Cys	39 \pm 7
	w/yeasts w/BSA	4272 \pm 34
Standard Hg(II)	w/yeasts w/o cations	6762 \pm 267
	w/yeasts w/Ca	5761 \pm 476
	w/yeasts w/Cu	4577 \pm 192