

Erratum to: Lifespan modification by glucose and methionine in *Drosophila melanogaster* fed a chemically defined diet

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We recently discovered an error in our manuscript “Lifespan modification by glucose and methionine in *Drosophila melanogaster* fed a chemically defined diet” (Age. 2007 Mar; 29(1):29–39). The amino acid content of the chemically defined diet that we used (Harlan Teklad Diet TD.04310) was 10-fold lower than our intended specifications, which we had designed to resemble the amino acid content in conventional media (Table 1). The error means that the defined media we used was essentially amino-acid restricted, which could explain the unusual longevity of the flies in our study (Flatt 2009; Mair et al. 2005; Min and Tatar 2006). Work is underway by other groups to examine this possibility.

The online version of the original article can be found at <http://dx.doi.org/10.1007/s11357-006-9018-4>.

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Table 1 Amino acid content of Teklad Diet TD.04310 per liter media

Amino Acids	Actual g / L	Actual %	Intended %
L-Aspartic Acid	2.5 g	0.025%	0.25%
L-Glutamic Acid	5.6 g	0.056%	0.56%
L-Serine	2.3 g	0.023%	0.23%
Glycine	1.0 g	0.010%	0.10%
L-Histidine HCl-H ₂ O	1.1 g	0.011%	0.11%
L-Arginine HCl	3.9 g	0.039%	0.39%
L-Threonine	2.1 g	0.021%	0.21%
L-Alanine	2.6 g	0.026%	0.26%
L-Proline	2.1 g	0.021%	0.21%
L-Tyrosine	1.9 g	0.019%	0.19%
L-Valine	3.0 g	0.030%	0.30%
L-Cystine	1.0 g	0.010%	0.10%
L-Isoleucine	1.9 g	0.019%	0.19%
L-Leucine	3.1 g	0.031%	0.31%
L-Phenylalanine	2.2 g	0.022%	0.22%
L-Lysine HCl	6.5 g	0.065%	0.65%
L-Tryptophan	17.4 g	0.175%	1.75%

References

- Flatt T (2009) Ageing: Diet and longevity in the balance. *Nature* 462(7276):989–990. PMID: 20033028
- Mair W, Piper MD, Partridge L (2005) Calories do not explain extension of life span by dietary restriction in *Drosophila*. *PLoS Biol* 3(7):e223
- Min KJ, Tatar M (2006) Restriction of amino acids extends lifespan in *Drosophila melanogaster*. *Mech Ageing Dev* 127(7):643–646