

Table S3.

Nitrogen and phosphorus concentrations in industrially relevant feedstocks, and concentration required for yeast biomass generation. For estimation of the amount of the yeast biomass that can be produced from feedstock carbohydrates, an aerobic yield of 0.5 g yeast biomass/ g carbohydrate was used.

	g/kg dry matter ^a		
	Nitrogen	Phosphorus	Carbohydrate ^b
Sugarcane juice	1.3	0.6	731
Sugarcane juice ^c	3.5	0.1	891
Sugarcane bagasse	2.9 ± 0.5	0.6 ± 0.8	744 ± 61
Beet molasses	22.9 ± 2.4	0.3 ± 0.2	632 ± 36
Wheat straw	6.7 ± 1.1	0.7 ± 0.2	703 ± 42
Corn stover (fresh)	11 ± 0.2	2.0 ± 0.6	607 ± 87
Corn stover (dried)	5.9 ± 0.6	0.7 ± 0.3	740 ± 28
Baker's yeast ^d	78.5 ± 0.8	13.1 ± 0.5	--

^a Values reported here are from the Institut National de la Recherche Agronomique Animal feed resources information system (57) unless otherwise noted.

^b Simple sugars, cellulose, and hemicellulose

^c Values obtained from material used in this study

^d Value obtained from (58)

57. G. Tran, V. Heuzé, D. Bastianelli, H. Archimède, D. Sauvant, Tables of nutritive value for farm animals in tropical and Mediterranean regions: An important asset for improving the use of local feed resources. *Adv. Anim. Biosci.* **1**, 5–6 (2011).

58. R. F. Light, Applied Chemistry Section, Fermentation Industries Division, Commission of Characterization and Evaluation of Dried Yeast, Survey of work during the years 1957–1962. *Pure Appl. Chem.* **7**, 147–153 (1967).