

Erratum to: The effect of iron-chelating agents on *Magnetospirillum magneticum* strain AMB-1: stimulated growth and magnetosome production and improved magnetosome heating properties

Edouard Alphandéry · Matthieu Amor ·
François Guyot · Imène Chebbi

Published online: 19 May 2013
© Springer-Verlag Berlin Heidelberg 2013

Erratum to: Appl Microbiol Biotechnol (2012) 96:663–670
DOI 10.1007/s00253-012-4199-5

This correction applies to the values of the SAR given in the abstract and page 668.

The formula used to calculate the SAR should be $SAR = \rho_{\text{water}} C_v (\Delta T / \delta t) / C_{\text{Fe}}$, where ρ_{water} is the water density (1g/cm^3), C_v is the heat capacity of water ($4.8\text{ JK}^{-1}\text{g}^{-1}$), $\Delta T / \delta t$ (k/sec.) is the slope of the variation of temperature with time measured at the beginning of the heat treatment and C_{Fe} is the iron concentration of the sample (g/ml). With this formula, we find a SAR of 63 W/g_{Fe} for the magnetosomes synthesized in the absence of iron chelating agent and of 213 W/g_{Fe} and 138 W/g_{Fe} for the magnetosomes synthesized in the presence of EDTA and rhodamine B respectively.

The online version of the original article can be found at <http://dx.doi:10.1007/s00253-012-4199-5>.

E. Alphandéry (✉) · M. Amor · F. Guyot
Institut de minéralogie et de physique des milieux condensés,
UMR 7590 CNRS, Université Pierre et Marie Curie,
4 Place Jussieu, 75005 Paris, France
e-mail: edouardalphandery@hotmail.com

E. Alphandéry · I. Chebbi
Nanobacterie SARL,
36 boulevard Flandrin,
75016 Paris, France

M. Amor · F. Guyot
Equipe Géobiosphère Actuelle et Primitive, Institut de Physique du
Globe de Paris, Université Paris Diderot, Sorbonne Paris Cité,
UMR 7154 CNRS, Université Paris Diderot, 1 rue Jussieu,
75005 Paris, France