

Table 4
End-members compositions used to model water–rock ratios at the southern wall of the Atlantis Massif

Types of rock	$^{87}\text{Sr}/^{86}\text{Sr}$	$^{143}\text{Nd}/^{144}\text{Nd}$	$\epsilon_{\text{Nd}}^{\text{a}}$	Sr (ppm)	Nd (ppm)
Seawater ^b	0.709160	0.512050	-11.5	8	2.6×10^{-6}
Mantle peridotite ^c	0.702689	0.513181	10.6	6.1	0.483

^a Epsilon values were calculated with Eq. (1) from the initial $^{143}\text{Nd}/^{144}\text{Nd}$ relative to CHUR (Nd)=0.512638 (Jacobsen and Wasserburg, 1980).

^b Sr and Nd isotope compositions are from the literature: Palmer and Edmond (1989) for the Sr isotope compositions and Piepgras and Wasserburg (1987), Tachikawa et al. (1999) for the Nd isotope composition.

^c Sr and Nd content of mantle peridotites are from Workman and Hart (2005).