

Bi-1,10-phenanthrolines and Their Mono-nuclear Ru(II) Complexes

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Supporting Information (7 pages)

Figure Captions

Figure S1. (A) Dependence of the relative luminescence quantum yield (ϕ/ϕ_0) of **Ru-3** ($[\text{Ru-3}] = 1 \times 10^{-5} \text{ M}$, MeOH) on the concentration of Zn^{2+} ; (B) Titration profile for **Ru-3** showing the relative quantum yield as a function of $-\log[\text{Zn}^{2+}]$. The solid line represents a non-linear fit according to equation (1).

Figure S2. Titration profile for **Ru-3** with Cd^{2+} showing the relative luminescence quantum yield as a function of $-\log[\text{Cd}^{2+}]$. The solid line represents a non-linear fit according to equation (1). The concentration of **Ru-3** was $1 \times 10^{-5} \text{ M}$, MeOH.

Figure S3. Titration profile for **Ru-3** with Hg^{2+} showing the relative luminescence quantum yield as a function of $-\log[\text{Hg}^{2+}]$. The solid line represents a non-linear fit according to equation (1). The concentration of **Ru-3** was $1 \times 10^{-5} \text{ M}$, MeOH.

Figure S4. Titration profile for **Ru-1** with Zn^{2+} showing the relative luminescence quantum yield as a function of $-\log[\text{Zn}^{2+}]$. The solid line represents a non-linear fit according to equation (1). The concentration of **Ru-1** was $1 \times 10^{-5} \text{ M}$, MeOH.

Figure S5. Titration profile for **Ru-2** with Zn^{2+} showing the relative luminescence quantum yield as a function of $-\log[\text{Zn}^{2+}]$. The solid line represents a non-linear fit according to equation (1). The concentration of **Ru-2** was $1 \times 10^{-5} \text{ M}$, MeOH.

Figure S6. Titration profile for **Ru-4** with Zn^{2+} showing the relative luminescence quantum yield as a function of $-\log[\text{Zn}^{2+}]$. The solid line represents a non-linear fit according to equation (1). The concentration of **Ru-4** was $1 \times 10^{-5} \text{ M}$, MeOH.

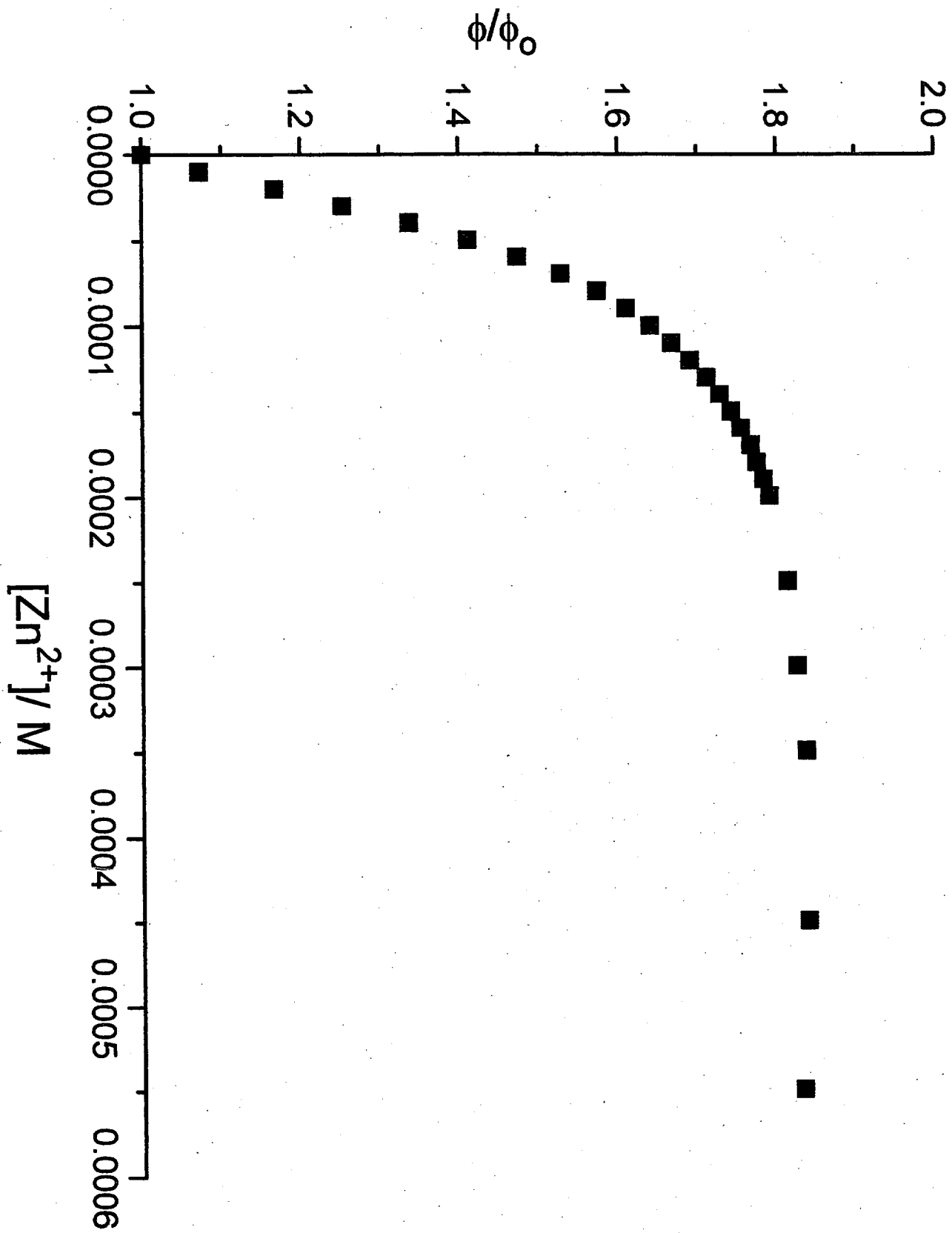


Figure S1A

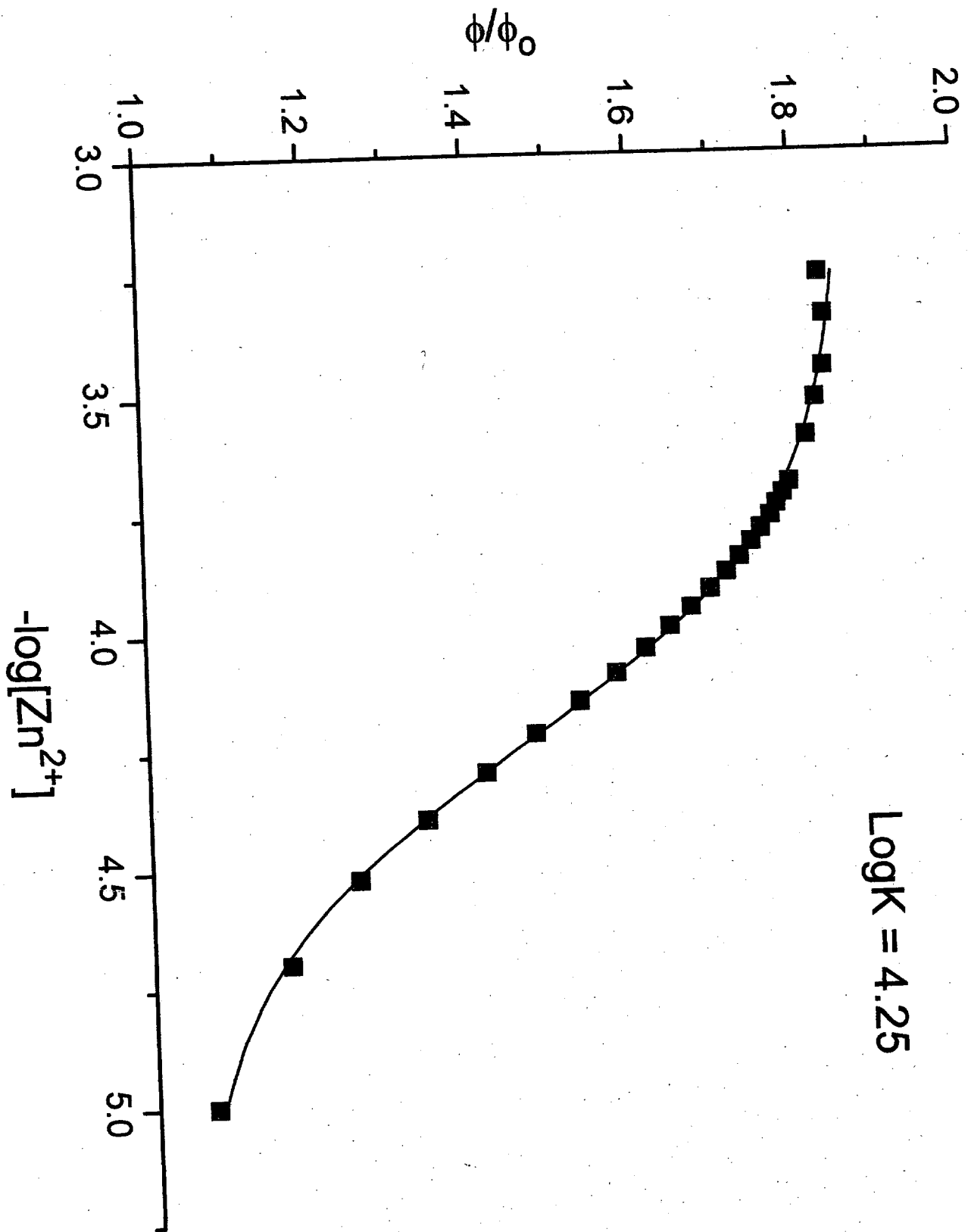


Figure S1B

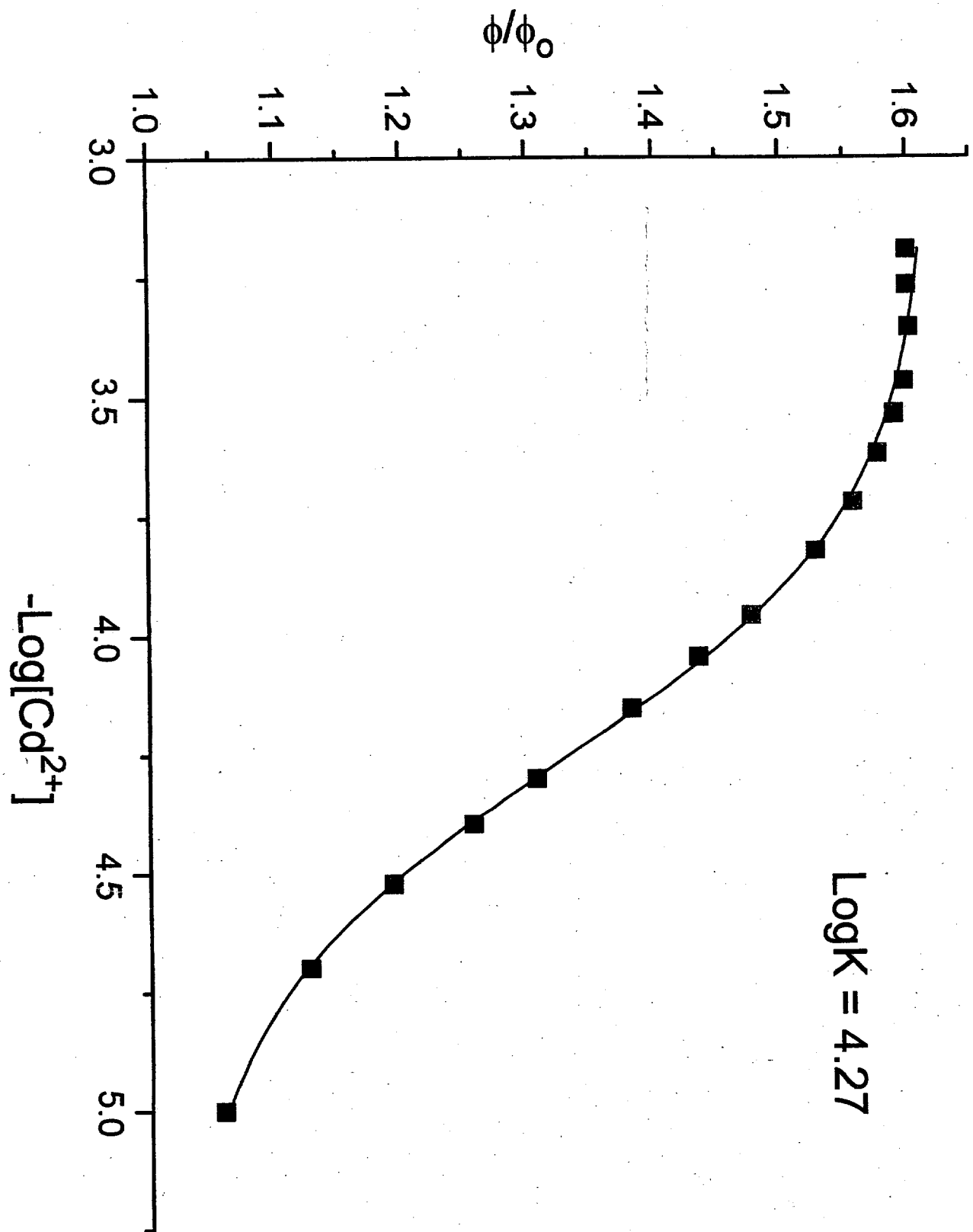


Figure S2

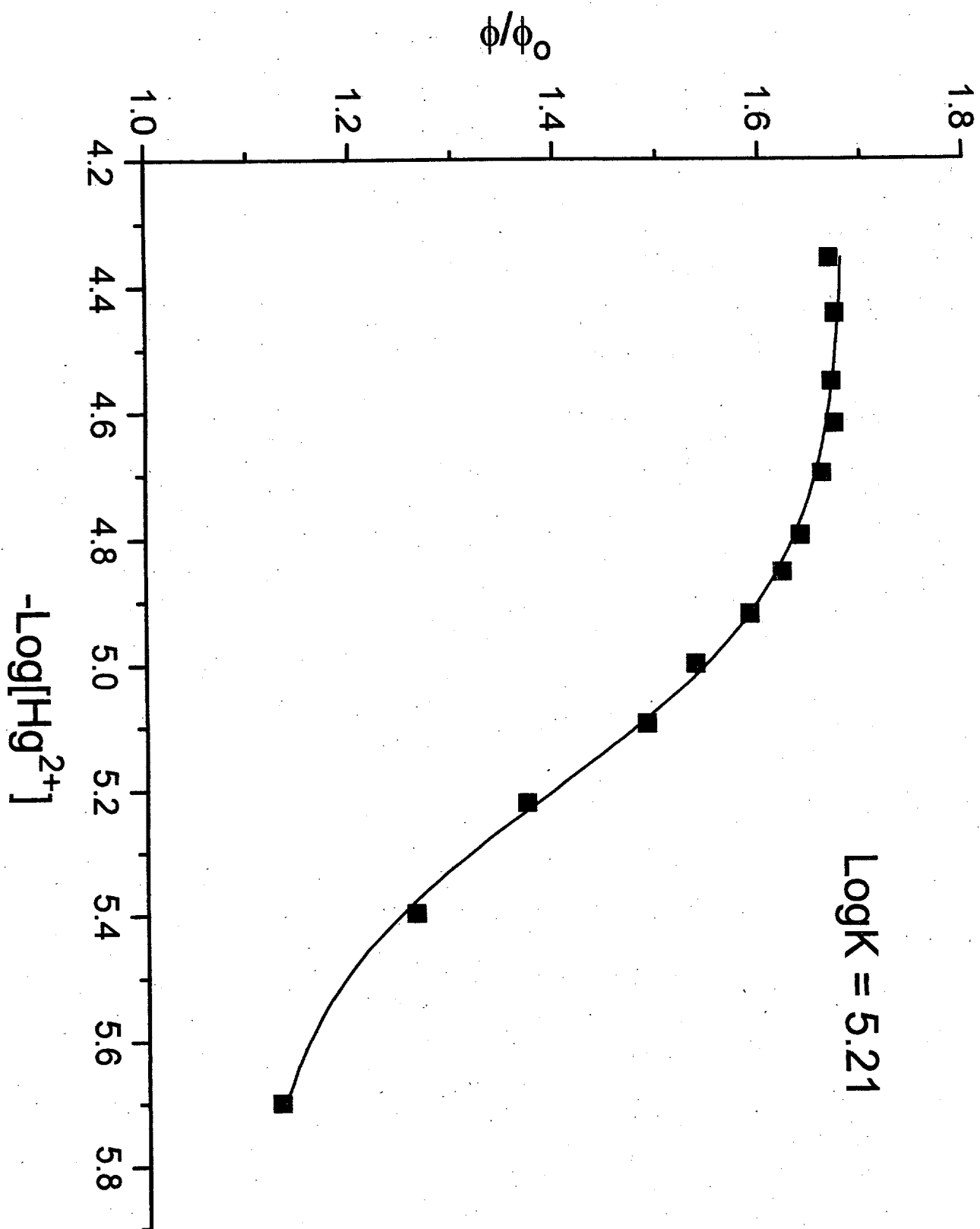


Figure S3

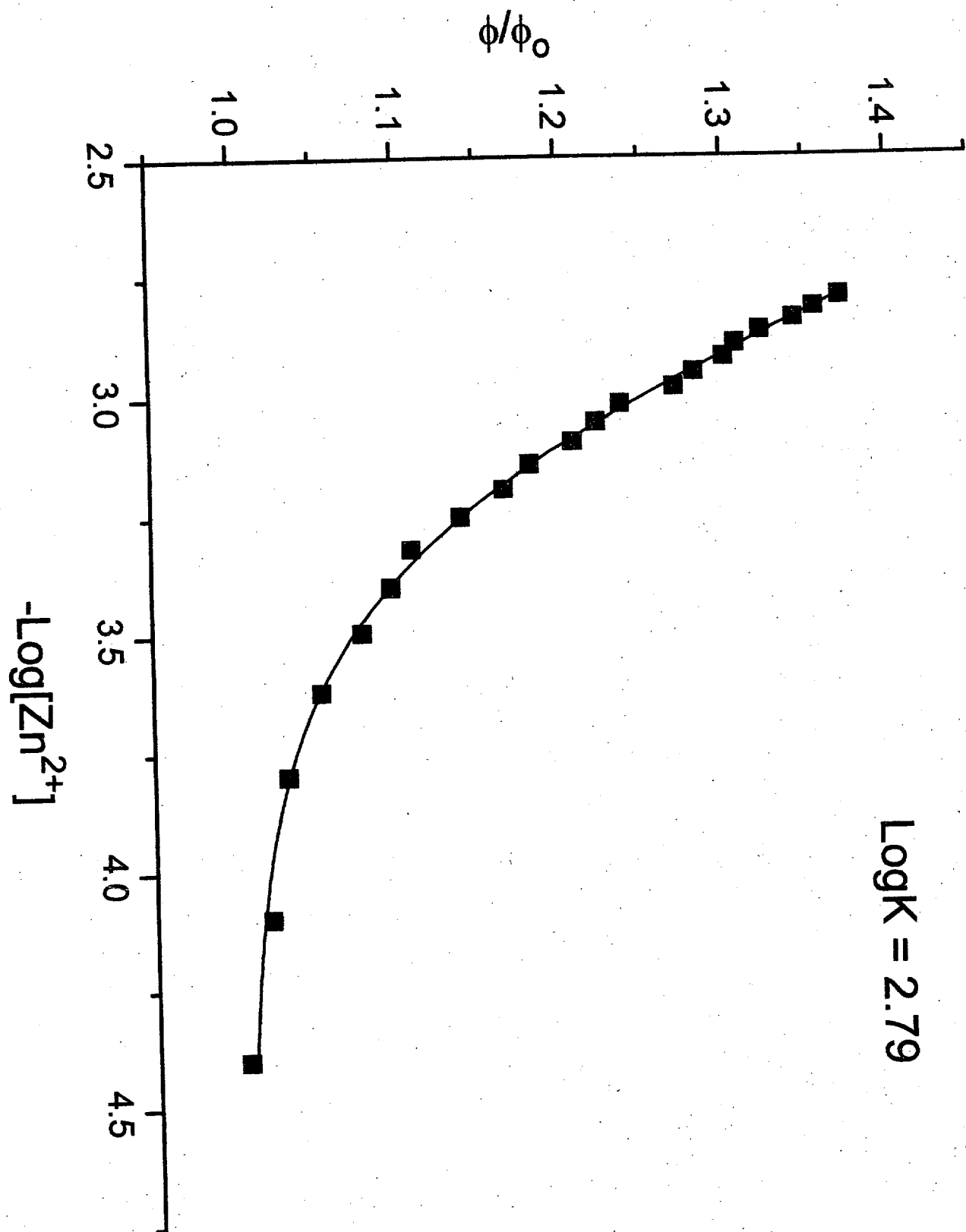


Figure S4

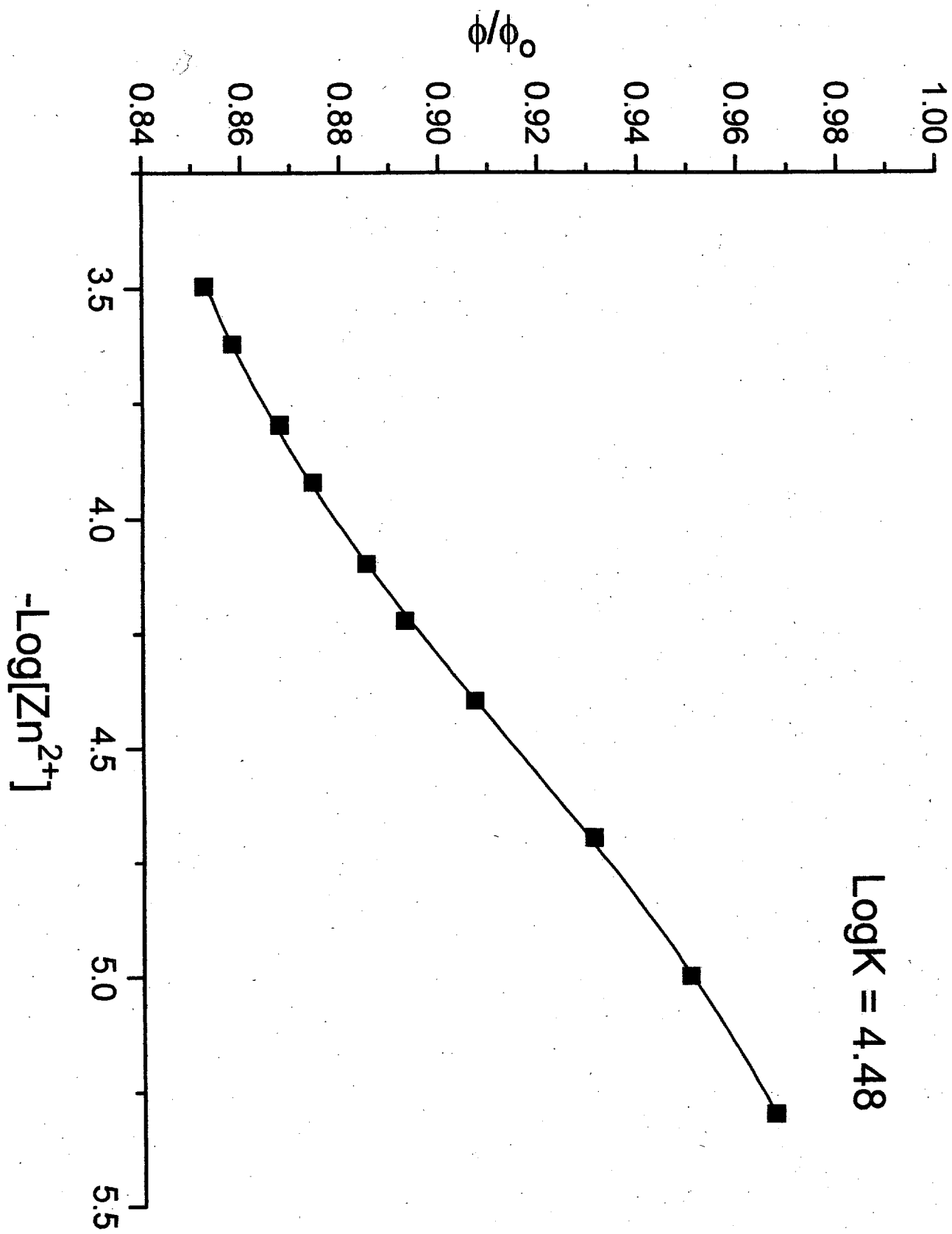


Figure S5

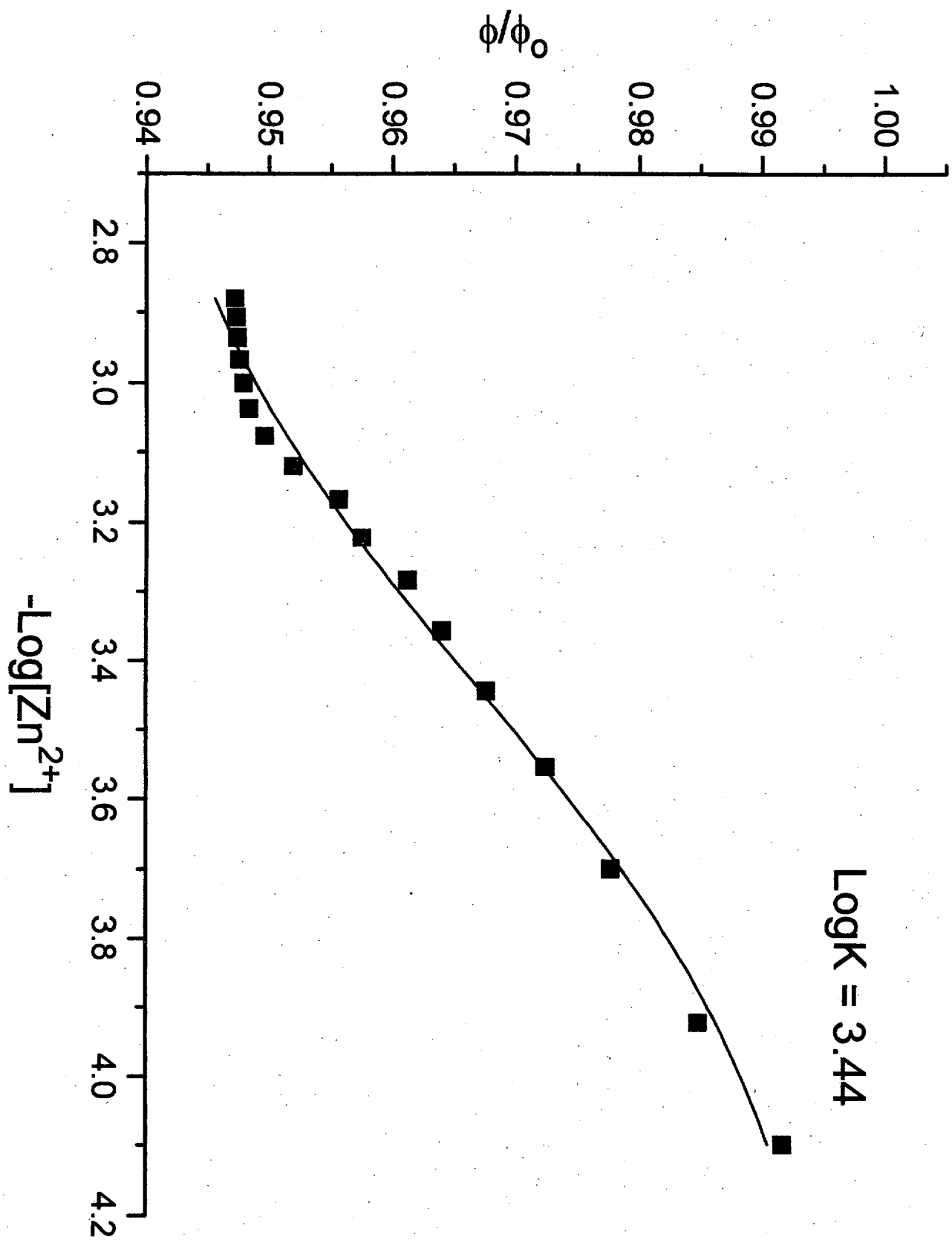


Figure S6