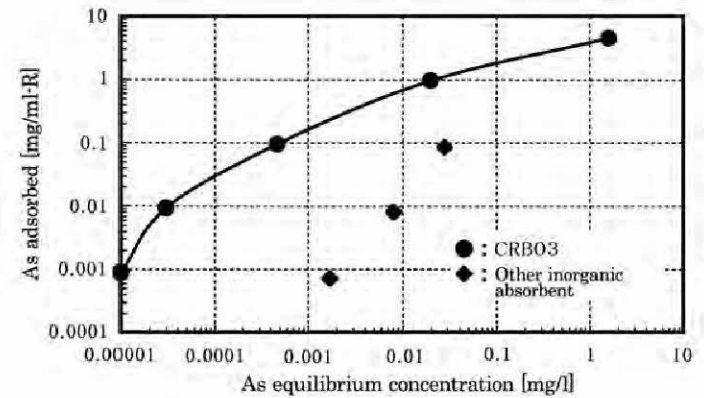


Arsenic Removal

(Extracted from the Diaion Manuals page 209)

2. Treatments of Arsenic and Selenium waste waters

The upper limits of the concentrations of both arsenic including its relevant compounds and selenium including its relevant compounds in waste waters are provided as below 0.1 mg/L by Water Pollution Control Law. These compounds can also be removed with boric acid selective adsorption resins.



[Fig.VI-2-1] Adsorption isotherm of As(V) by CRB03 at pH=7~9

Fig.VI-2-1 illustrates the adsorption isotherm of CRB03 versus As(V), and it will show us that As couples with hydroxyl groups of IERs by ester bonds as well as boron does. Selenium is reported to be able to be also removed with CRB. ⁽²⁷⁾⁽²⁸⁾