A Calculation about preparation of stock solution

Stock solution for standard

Stock solution 10,000 ppm standard As(III):

: $NaAsO_2$(MW) = 129.91017 , As (MW) = 74.9216

10,000 ppm = 10,000 mg/l or 1 g/100 ml

As = 74.9216 g, $NaAsO_2$ = 129.91017

As = 1 g, $NaAsO_2$ = (1x129.91017)/74.9216

= 1.7340 g

So weighing 1.7340 g of $NaAsO_2$ and dissoving in 100 ml of deionize water, will give stock solution 10,000 ppm standard As(III).

Pipet 10 µl stock solution 10,000 ppm standard As(III)

: Standard As(III) 10,000 ppm : 10^3 ml, have As 10^4 mg

Pipet standard As(III) 10 µl (0.01 ml), have As = [(10^4 mg)x(0.01 ml)]/(10^3 ml)

= 0.1 mg

So pipet standard As(III)10 µl from stock solution 10,000 ppm standard As(III) will have As 0.1 mg.

B Sources of samples

Sample number	Sources of samples
1	Well water from Moo 2
2	Creek water from Moo 2
3	Marsh water from Moo 2
4	Creek water from Moo 2
5	Well water from Moo 12
6	Ground water from Moo 12
7	Marsh water from Moo 2
8	Well water from Moo 7

The water samples were from Ronpiboon district, Nakhon Sri Thammarat province, Thailand.

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