

- 1 / 5 -

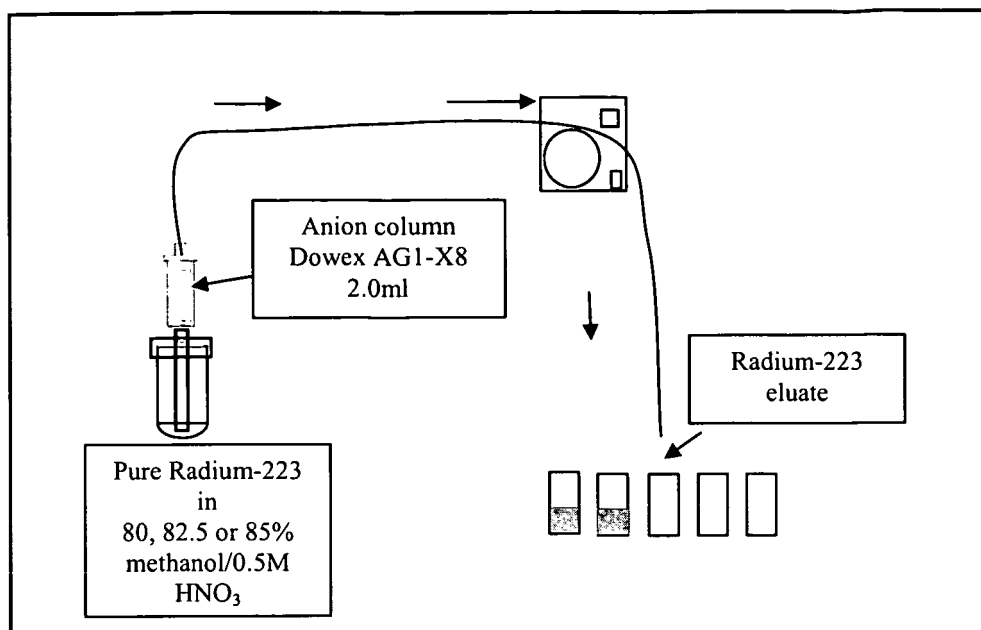


Figure 1 - set up to determine radium-223 yield on a 2ml anion column.

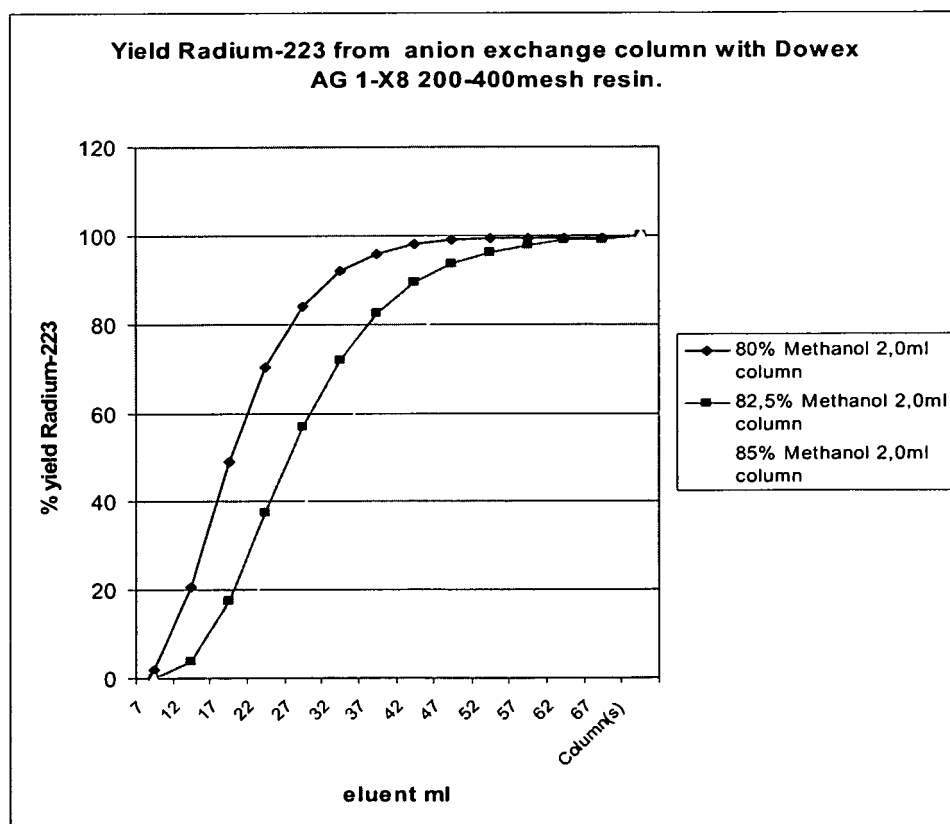


Figure 2 - elution profile of radium-223 from a 2ml anion-exchange column packed with AG 1-X8 200-400mesh particles

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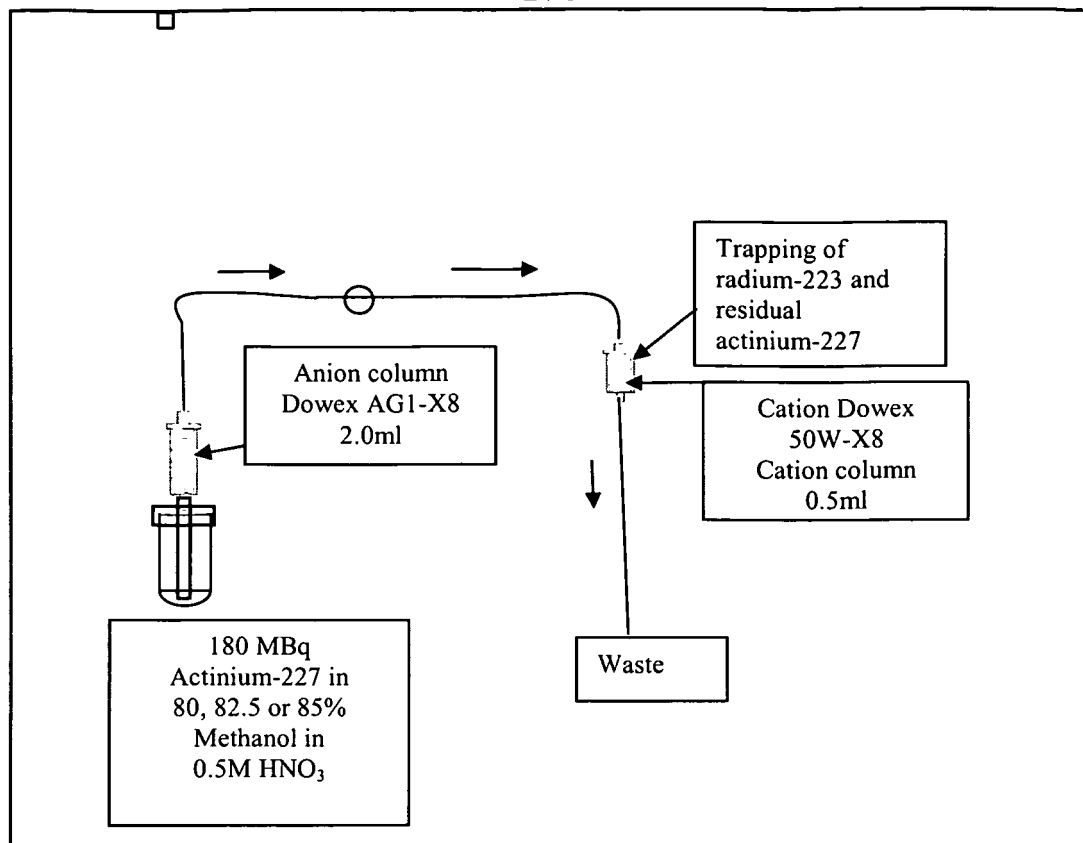


Figure 3 - setup for evaluating leakage of actinium-227 from anion columns.

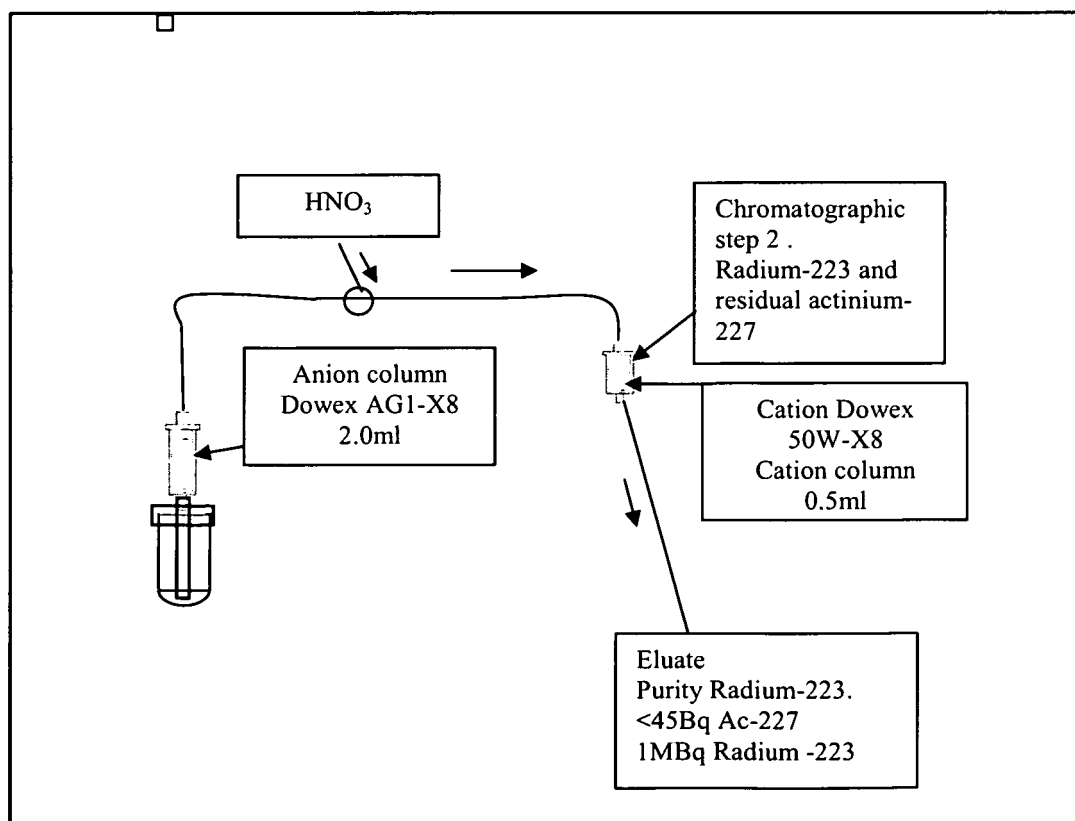


Figure 4 - setup for evaluating cation separation column.

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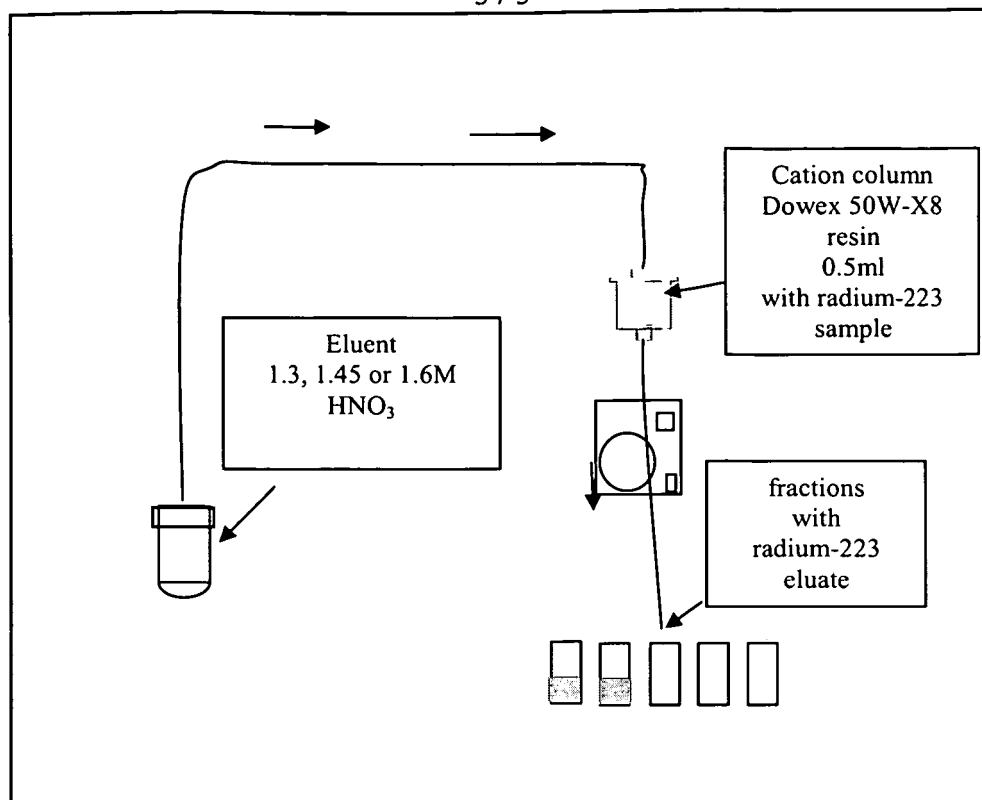


Figure 5 - set up for assessing elution of radium-223 elution from cation exchange column.

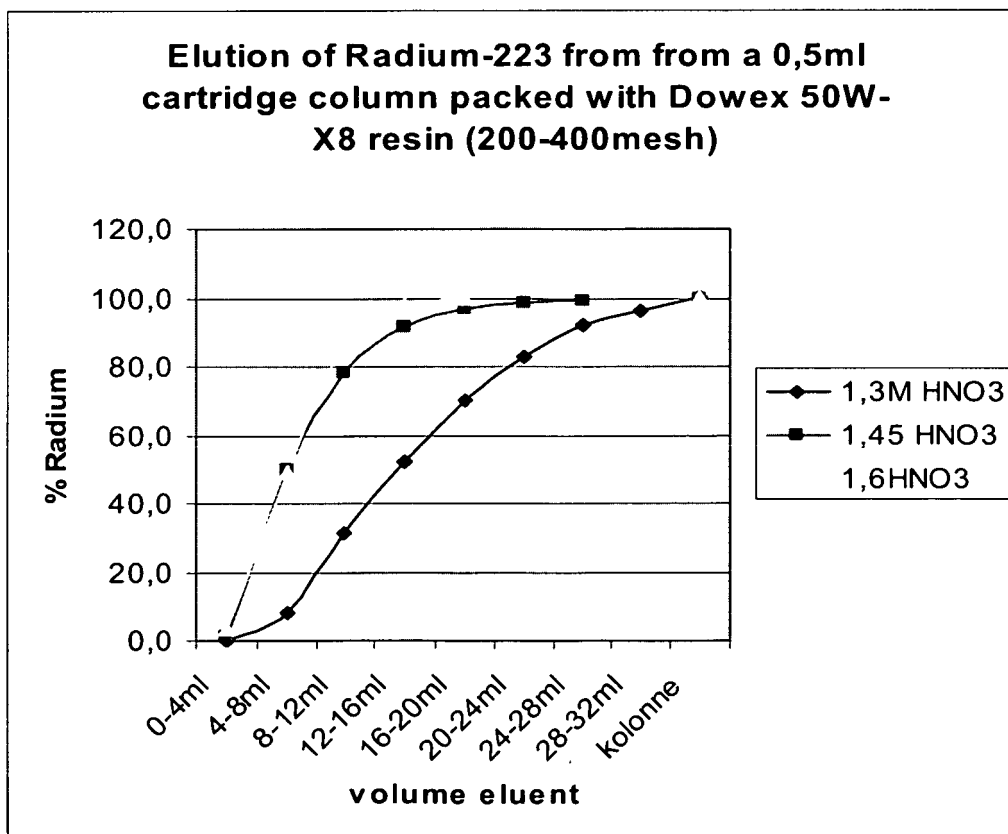


Figure 6 - elution profiles generated by the apparatus of Figure 5.

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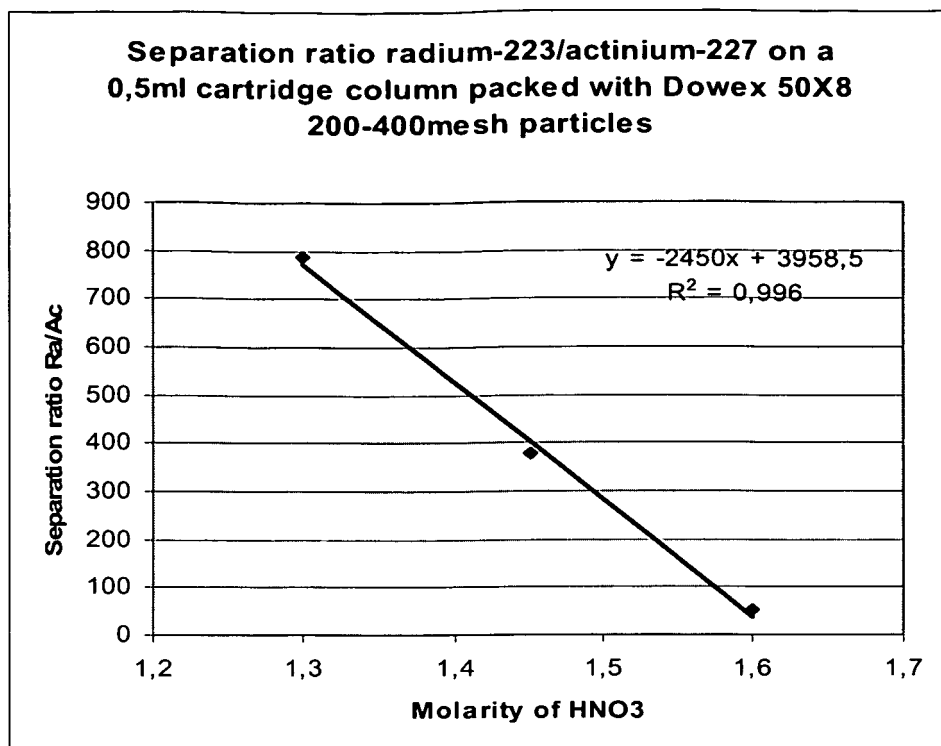


Figure 7 separation ratio between radium-223 and actinium-227 at varying HNO₃ concentrations.

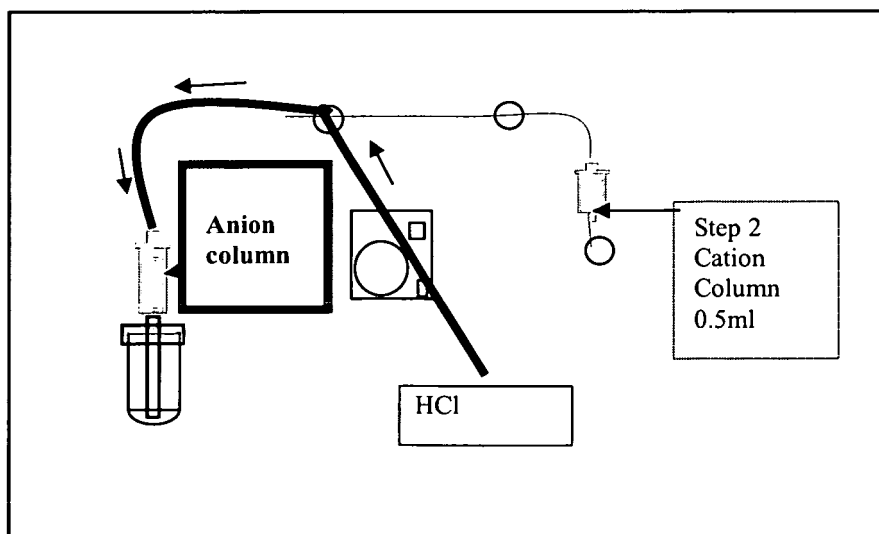


Figure 8 - regeneration of parent isotopes after radium separation.

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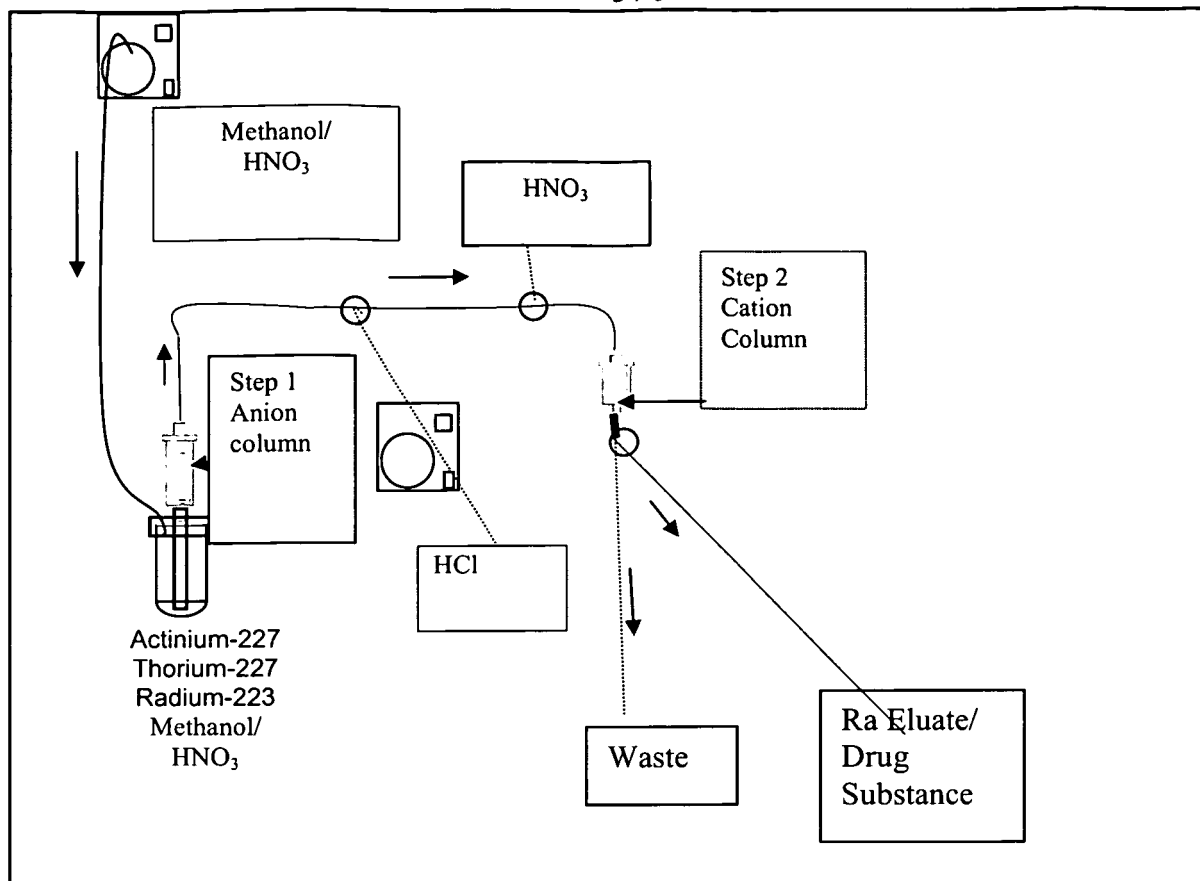


Figure 9 - Full scale experimental setup