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is as follows: After dissolution with HNO_3 and H_2O_2, the irradiated samples are passed through three columns——the HAP, the anion resin and the cation resin successively. By using different eluting solution, the interested elements are divided into six groups. About 25 trace elements can be rapidly determined with Ge (Li) semi-conductor detector.

For examining the accuracy of this method, standard reference materials rice (NBS-SRM-1568) and bovine liver (NBS-SRM-1577) are analysed. Our results are quite consistent with NBS's value.

Some samples of normal human whole blood are analysed and the results reported. The chemical yield of 24 elements are given.

Key words Neutron Activation Analysis, Radiochemical Group Separation, Multielements, Human Whole Blood.