Spectrophotometric Determination Of Uranium With Arsenazo

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Spectrophotometric Determination Of Uranium With
A simple method for the selective and sensitive spectrophotometric determination of uranium (IV) is described. The method is based on the reaction of U IV with thorin and subsequent extraction of the red–orange complex with N -hydroxy- N, N ′-diphenylbenzamidine (HDPBA) in benzene as an interfacial complex at pH 2.2.

Spectrophotometric determination of uranium(IV) with ...
the basis of a spectrophotometric method for the determination of 0.0025 to 0.1 mg of uranium. Horton and White(7) have determined uranium in TOPO extracts colori-metrically with dibenzoylmethane. The range of uranium in this method is 0.015 to 2.5 mg. A fluorometric procedure for e determination of uranium in TOPO extracts has also been published.

Direct Spectrophotometric Determination of Uranium in ...
Solid-Phase Extraction of Ultratrace Uranium(VI) in Natural Waters Using Octadecyl Silica Membrane Disks Modified by Tri- n -octylphosphine Oxide and Its Spectrophotometric Determination with Dibenzoylmethane Mojtaba Shamsipur, Ali Reza Ghiasvand, and Yadollah Yamini Analytical Chemistry 1999 71 (21), 4892-4895

Spectrophotometric Determination of Uranium with 4-(2 ...
Abstract. A short, sensitive and reliable spectrophotometric method, which has advantages over all known “wet chemistry” methods for uranium determination with regard to tolerance to common interferences, has been developed for the determination of uranium. Selectivity, molar absorptivity and the determination range of uranium have been enhanced by using 0.07% arsenazo-III as a chromogenic reagent.

Spectrophotometric determination of uranium with arsenazo ...
A sensitive spectrophotometric method for the determination of uranium has been developed, based on measurement of the colour produced by the reaction of uranyl ions (UO) with 2,4-dinitrosoresorcinol (DNR). The method is best suited to the determination of 0.10–2.00 mg of uranium in 50 ml of solution.

Spectrophotometric determination of uranium and iron using ...
A highly sensitive and precise spectrophotometric method for the direct determination of uranium (VI) in bacterial leach liquors, obtained by the action of Thiobacillus ferrooxidans and T. thiooxidans, from low-grade sandstone uranium ores, has been developed, Arsenazo-III formed an intense pink-violet complex at pH 2·0 ± 0·1, which showed maximum absorption at 655 nm.

Spectrophotometric determination of uranium(VI) in ...
A highly sensitive and precise spectrophotometric method for the direct determination of uranium(VI) in bacterial leach liquors, obtained by the action of Thiobacillus ferrooxidans and T. thiooxidans, from low-grade sandstone uranium ores, has been developed, Arsenazo-III formed an intense pink-violet complex at pH 2·0 ± 0·1, which showed maximum absorption at 655 nm.

Spectrophotometric determination of uranium(VI) in ...
spectrophotometric determination of uranium(VI) using phenylene bisphenol as an analytical reagent 10.0 ppm The stability of the complex compound is low 10 11 Spectrophotometric determination of uranium(VI) using 2-(2-Thiazolylazo)-p-cresol in the presence of surfactants 26 ng/ml 11 12 Speciation and spectrophotometric determination of uranium in seawater

Analytical Determination of Uranium (VI) by Spectrophotometry
Winters, W. I. Spectrophotometric determination of trace uranium in plutonium nitrate and oxide with 2- (2-pyridylazo)-5-diethylaminophenol. United States. doi:10.2172/4208719. Winters, W. I. Thu . "Spectrophotometric determination of trace uranium in plutonium nitrate and oxide with 2- (2-pyridylazo)-5-diethylaminophenol".

Spectrophotometric determination of trace uranium in ...
the spectrophotometric determination of uranium using arsenazo Technical Report Henicksman, A L ; Hues, A D Spectrophotometric determination of plutonium-239 based on the spectrum of plutonium(III) chloride

THE SPECTROPHOTOMETRIC DETERMINATION OF PLUTONIUM AS THE ...
Abstract A method is described for the spectrophotometric determination of microgram amounts of zirconium, uranium (VI), thorium and rare earths with Arsenazo III after systematic separation by extraction. First zirconium is extracted into a xylene solution of thenoyltrifluoroacetone (TTA) from about 4 M hydrochloric acid.

Spectrophotometric determination of zirconium, uranium ...
A method for the direct determination of uranium in a cyclohexane solution of tri-n-octylphosphine oxide (TOPO) is presented. The adduct, UO/sub 2/ Cl/sub 2/ x 2TOPO, that is formed when uranium(VI) is extracted from hydrochloric acid solutions by tri-n-octylphosphine oxide absorbs light in the ultraviolet region.

Direct Spectrophotometric Determination of Uranium in ...
Abstract Alizarin-Red S has been used to determine zirconium spectrophotometrically in uranium alloys of the fission elements. Separation from interferences is effected by co-precipitating the zirconium with barium fluosilicate. Colour stability and improved precision have been realised through changes in the colour development procedure.

Spectrophotometric determination of zirconium in uranium ...
Spectrophotometric determination of uranium(VI) with 2-(3,5-dibromo-2-pyridylazo)-5-diethylaminophenol in the presence of anionic surfactant. Hung SC(1), Qu CL, Wu SS. Author information: (1)Institute of Environmental Chemistry, Academia Sinica, P.O. Box 934, Peking, China.

Spectrophotometric determination of uranium(VI) with 2-(3 ...
A sensitive and selective spectrophotometric method is proposed for the rapid determination of uranium using 2-(2- Thiazolylazo)-p-Cresol (TAC). The reaction between TAC and uranium (VI) is instantaneous at pH 6.5 and the absorbance remains stable for over 3 h.

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A sensitive and selective spectrophotometric method is proposed for the rapid determination of uranium using 2-(2- Thiazolylazo)-p-Cresol (TAC). The reaction between TAC and uranium (VI) is instantaneous at pH 6.5 and the absorbance remains stable for over 3 h.

Spectrophotometric Determination of Uranium Using 2-(2 ...
SPECTROPHOTOMETRIC DETERMINATION OF URANIU~I with varying amounts of foreign ions. Using 11.9 ppm of uranium ion, it is found that the presence of 7.56 ppm of cerium and 1.16ppm of thorium in the sample, did not cause deviation of more than Â±2.96 in absorbance.

Spectrophotometric Determination of Uranium with ...
An extraction and spectrophotometric method for determination of trace amounts of uranium in phosphate fertilizers is described. It is based on the extraction of uranium with trioctylphosphine...

Extraction and spectrophotometric determination of uranium ...
Derivative spectrophotometric determination of uranium (VI) using diacetyl monoxime isonicotinoyl hydrazone (DMIH).