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| 1. Record Nr.           | UNINA9910958408603321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Titolo                  | Medical isotope production without highly enriched uranium / / Committee on Medical Isotope Production Without Highly Enriched Uranium, Nuclear and Radiation Studies Board, Division of Earth and Life Studies, National Research Council of the National Academies                                                                                                                                                                                                                                                                                                                                      |
| Pubbl/distr/stampa      | Washington, D.C., : National Academies Press, 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ISBN                    | 9786612239243<br>9780309141093<br>0309141095<br>9781282239241<br>1282239244<br>9780309130400<br>0309130409                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Edizione                | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Descrizione fisica      | 1 online resource (221 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Disciplina              | 546.431                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Soggetti                | Uranium - Isotopes - Therapeutic use<br>Highly enriched uranium - Isotopes - Therapeutic use<br>Molybdenum - Isotopes - Therapeutic use<br>Technetium - Isotopes - Therapeutic use<br>Radioisotopes - Therapeutic use<br>Nuclear medicine - Standards - United States<br>Diagnostic imaging<br>Radionuclide generators<br>Quality control<br>Molybdenum - supply & distribution<br>Molybdenum - isolation & purification<br>Radioisotopes - supply & distribution<br>Technetium Compounds - isolation & purification<br>Diagnostic Imaging<br>Radionuclide Generators<br>Quality Control<br>United States |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| Livello bibliografico | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Note generali         | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Nota di bibliografia  | Includes bibliographical references (p. 163-167).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nota di contenuto     | Background and study task -- Molybdenum-99/Technetium-99m production and use -- Molybdenum-99/Technetium-99m supply -- Molybdenum-99/Technetium-99m supply reliability -- Molybdenum-99/Technetium-99m demand -- Molybdenum-99/Technetium-99m production costs -- Conversion to LEU-based production of Molybdenum-99: technical considerations -- Conversion to LEU-based production of Molybdenum-99: regulatory considerations -- Conversion to LEU-based production of Molybdenum-99: general approaches and timing -- Conversion to LEU-based production of Molybdenum-99: prospects and feasibility. |