

Experimental implementation and proof of principle for a radionuclidic purity test solely based on half-life measurement - DTU Orbit (09/11/2017)

Experimental implementation and proof of principle for a radionuclidic purity test solely based on half-life measurement

In this paper we present the results of an experimental implementation of the method (Jorgensen et al., 2012) for testing the radionuclidic purity (RNP) of F-18 compounds. The overall limitations of the experimental methods and their possible impacts on RNP detectability have been identified. We have developed an GUI application for use as an easy and automated test tool in the production procedure. The test results show that this method fully complies with the requirements in the European Pharmacopoeia (Eur. Ph.) for RNP of FDG and F-18 Sodium Fluoride. (C) 2015 Elsevier Ltd. All rights reserved.

General information

State: Published

Organisations: Center for Nuclear Technologies, The Hevesy Laboratory, Technical University of Denmark

Authors: Jørgensen, T. (Ekstern), Jensen, M. (Intern)

Number of pages: 8

Pages: 108-115

Publication date: 2016

Main Research Area: Technical/natural sciences

Publication information

Journal: Applied Radiation and Isotopes

Volume: 108

ISSN (Print): 0969-8043

Ratings:

BFI (2017): BFI-level 1

Web of Science (2017): Indexed yes

BFI (2016): BFI-level 1

Scopus rating (2016): CiteScore 1.17 SJR 0.537 SNIP 1.005

Web of Science (2016): Indexed yes

BFI (2015): BFI-level 1

Scopus rating (2015): SJR 0.546 SNIP 1.014 CiteScore 1.15

BFI (2014): BFI-level 1

Scopus rating (2014): SJR 0.582 SNIP 1.218 CiteScore 1.27

Web of Science (2014): Indexed yes

BFI (2013): BFI-level 1

Scopus rating (2013): SJR 0.528 SNIP 0.959 CiteScore 1.24

ISI indexed (2013): ISI indexed yes

Web of Science (2013): Indexed yes

BFI (2012): BFI-level 1

Scopus rating (2012): SJR 0.669 SNIP 1.136 CiteScore 1.29

ISI indexed (2012): ISI indexed yes

Web of Science (2012): Indexed yes

BFI (2011): BFI-level 1

Scopus rating (2011): SJR 0.632 SNIP 1.153 CiteScore 1.21

ISI indexed (2011): ISI indexed yes

Web of Science (2011): Indexed yes

BFI (2010): BFI-level 1

Scopus rating (2010): SJR 0.706 SNIP 1.089

Web of Science (2010): Indexed yes

BFI (2009): BFI-level 1

Scopus rating (2009): SJR 0.618 SNIP 1.191

Web of Science (2009): Indexed yes

BFI (2008): BFI-level 1

Scopus rating (2008): SJR 0.669 SNIP 1.176

Web of Science (2008): Indexed yes

Scopus rating (2007): SJR 0.588 SNIP 1.168

Web of Science (2007): Indexed yes

Scopus rating (2006): SJR 0.591 SNIP 1.097

Web of Science (2006): Indexed yes

Scopus rating (2005): SJR 0.47 SNIP 0.806

Web of Science (2005): Indexed yes

Scopus rating (2004): SJR 0.805 SNIP 1.15

Scopus rating (2003): SJR 0.502 SNIP 0.766

Web of Science (2003): Indexed yes

Scopus rating (2002): SJR 0.586 SNIP 1.039

Web of Science (2002): Indexed yes

Scopus rating (2001): SJR 0.501 SNIP 0.681

Scopus rating (2000): SJR 0.474 SNIP 0.92

Web of Science (2000): Indexed yes

Scopus rating (1999): SJR 0.577 SNIP 0.733

Original language: English

Deadtime correction, F-18, Half life, Radionuclidic purity, Software, Statistical test

DOIs:

10.1016/j.apradiso.2015.12.038

Source: FindIt

Source-ID: 2289801976

Publication: Research - peer-review › Journal article – Annual report year: 2016