

**Missouri State Public Health Laboratory**

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Bill Whitmar
Laboratory DirectorJeremiah W. (Jay) Nixon
Governor

Amendment of Materials License number 24-35208-01

Date: 2016-03-29

The Missouri State Public Health Laboratory would like to make the following amendments/changes to our materials license.

Section 9

M through O. For calibration of analytical equipment and spiking analytical samples.

The liquid sources will be fractionated and waste will be generated. We will be performing a procedure for screening Am-241, Am-238, Am-239, Pu-240, and Sr-90 in foods by solid-phase extraction liquid scintillation counting. When the method is used on a given food for the first time, the sample analysis must include a matrix spike that provides a means of quantifying analyte recovery. We will purchase five mL of NIST traceable one microcurie liquid sources to make intermediate sources to spike a laboratory control sample (LCS). The LCS will be prepared from food matrix spiked with known amounts of alpha (Am-241 or Pu-239) and beta (Sr-90) radioactivity. We will also use the NIST traceable one microcurie liquid sources to establish the optimal alpha/beta discriminator setting and its corresponding alpha/beta spillover correction factors at the crossover point of alpha/beta spillover curves. The alpha/beta spillover curves are generated with a pure alpha and a pure beta standard.

A handwritten signature in cursive script that reads "Alan Schaffer".

Alan Schaffer
Radiation Safety Officer
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Peter Lyakowski
 Acting Director



Jeremiah W. (Jay) Nixon
 Governor

Fax

To: Materials Licensing Branch	From: Alan Schaffer
Business:	Fax: 573-522-4032
Fax:	Phone: 573-751-3334
Phone: 573-751-3334 630-515-1078	Pages: 2 with cover
Date: 3-29-16	Email: alan.schaffer@health.mo.gov
Re: Amendment to license	

● **Comments:**

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