TECHNICAL DATA SHEET

^{125}I

Caution: For Laboratory Use. A product for research purposes only

[^{125}I]-Rabbit Anti-Mouse IgG

Product Number: NEX161

LOT SPECIFIC INFORMATION:

CALCULATED AS OF: 6-Jun-2011

LOT NUMBER: CD70810

SPECIFIC ACTIVITY:
42.2 TBq/mmol
1141 Ci/mmol
0.3 MBq/µg
7.6 µCi/µg

CONCENTRATION:
4.80 MBq/ml
129.8 µCi/ml

UNBOUND IODIDE: <5% unbound iodine

MOLECULAR WEIGHT: ~150,000

Package Size Information

Package Size as of 8-Jul-2011	Volume
3.70 mBq 100 µCi	1.25 ml
9.25 MBq 250 µCi	3.125 ml

PACKAGING: [^{125}I]-Rabbit anti-mouse IgG is in a solution containing 0.05M sodium phosphate, 0.15M NaCl, 0.1% BSA, and 0.2% Tween 80® at pH 7.4. It is shipped on dry ice.

STABILITY AND STORAGE: [^{125}I]-Rabbit anti-mouse IgG should be stored at -20°C or lower. It should be aliquoted in appropriate volumes to avoid repeated freeze-thaw cycles. Under these conditions, the product is stable and usable for at least four weeks after fresh lot date.

SPECIFIC ACTIVITY: 2-10 µCi/µg (74-370 kBq/µg) on fresh lot date as determined from ^{125}I incorporation into rabbit anti-mouse IgG. Specific activity decays with time.

RADIOCHEMICAL PURITY: Initially less than 5% unbound iodide as determined by thin layer chromatography.

PREPARATIVE PROCEDURE: Affinity purified rabbit anti-mouse IgG is radioiodinated with no carrier added ^{125}I using a modification of the Hunter and Greenwood method[1] and is purified by gel filtration chromatography. This method predominantly labels tyrosine residues.

AVAILABILITY: [^{125}I]-Rabbit anti-mouse IgG is routinely available from stock and is prepared fresh and packaged for shipment on the first Monday of each month. Please inquire for larger package sizes.

HAZARD WARNING: This product contains a chemical (s) known to the state of California to cause cancer.

RADIATION UNSHIELDED: 280mR/hr/mCi at vial surface.

REFERENCES:

1. Hunter, W.M. and Greenwood, F.C., *Nature* 194 495 (1962).

IODINE-125 DECAY CHART HALF LIFE=60 days

Radiations: **Gamma 35.5 keV (7%) , X-ray K alpha 27 KeV (112%), K beta 31 keV (24%)**

DAYS	0	2	4	6	8	10	12	14	16	18
0	1.000	.977	.955	.933	.912	.891	.871	.851	.831	.812
20	.794	.776	.758	.741	.724	.707	.691	.675	.660	.645
40	.630	.616	.602	.588	.574	.561	.548	.536	.524	.512
60	.500	.489	.477	.467	.456	.445	.435	.425	.416	.406
80	.397	.388	.379	.370	.362	.354	.345	.338	.330	.322
100	.315	.308	.301	.294	.287	.281	.274	.268	.262	.256
120	.250	.244	.239	.233	.228	.223	.218	.213	.208	.203

To obtain the correct radioactive concentration or amount for a date before the calibration date: divide by the decay factor corresponding to the number of days before the calibration date. To obtain the correct radioactive concentration or amount for a date after the calibration date: multiply by the decay factor corresponding to the number of days after the calibration date.

PerkinElmer, Inc.
549 Albany Street
Boston, MA 02118 USA
P: (800) 762-4000 or (+1) 203-925-4602
www.perkinelmer.com/nenradiochemicals

For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

PerkinElmer