



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
Board of Radiation & Isotope Technology
 (Opp. APMC Fruit Market, Sector-20 Vashi, Navi Mumbai - 400 705)



CARBON-14 LABELLED COMPOUNDS

S No	COMPOUND	CODE	SPECIFIC ACTIVITY mCi / mmole (GBq / mmole)
1	Acetic-1- ¹⁴ C anhydride	LCC 51	50-100 (1.85-3.7)
2	L-Alanine- ¹⁴ C (U) 3% Ethanol solution	LCC 153	> 75 (> 2.775)
3	Algae Protein Hydrolysate- ¹⁴ C (U) 0.01N HCl Solution	LCC 111	> 25 (> 0.925)
4	L-Arginine- ¹⁴ C (U) 3% Ethanol solution	LCC 154	> 150 (> 5.55)
5	L-Aspartic acid-C- ¹⁴ C (U) 3% Ethanol solution	LCC 155	> 100 (> 3.7)
6	Benzoic acid (carboxyl- ¹⁴ C) Solid	LCC 6	15 (0.555)
7	Choline-methyl- ¹⁴ C chloride	LCC 195	5-10(0.185-0.37)
8	2-Deoxy glucose- ¹⁴ C(U) (on request)	LCC 231	150-250 (5.55-9.25)
9	D-Fructose- ¹⁴ C (U) 80% Ethanol solution	LCC 8	150 - 250 (5.55 - 9.25)
10	D-Glucose- ¹⁴ C (U) 80% Ethanol solution	LCC 9	150 - 250 (5.55 - 9.25)
11	D-Glucosamine- ¹⁴ C(U) Hydrochloride 80% Ethanol solution	LCC 193	150 - 250 (5.55 - 9.25)
12	D-Glucose-1- ¹⁴ C 80% Ethanol solution	LCC 10	10 - 50 (0.37 - 1.85)
13	L-Glutamic acid- ¹⁴ C (U) 3% Ethanol solution	LCC 156	> 125 (> 4.625)
14	DL-Glyceric acid-1- ¹⁴ C Aqueous solution	LCC 189	2 - 5 (0.074 - 0.185)
15	Glycerol-1,3- ¹⁴ C Aqueous solution	LCC 196	2 - 5 (0.074 - 0.185)
16	Glycine- ¹⁴ C (U) 3% Ethanol solution	LCC 121	> 50 (> 1.85)
17	Glycine-2- ¹⁴ C 3% Ethanol solution	LCC 12	20 - 30 (0.74 - 1.11)
18	Glycolic acid-1- ¹⁴ C Aqueous solution	LCC 171	5 - 10 (0.185 - 0.37)

S No	COMPOUND	CODE	SPECIFIC ACTIVITY mCi / mmole (GBq / mmole)
19	Guanine-8- ¹⁴ C Hydrochloride Solid	LCC 14	10 - 30 (0.37 - 1.11)
20	L-Lactic acid- ¹⁴ C (U) Aqueous solution	LCC 139	60 - 120 (2.22 - 4.44)
21	L-Leucine- ¹⁴ C (U) 3% Ethanol solution	LCC 157	> 150 (> 5.55)
22	L-Isoleucine- ¹⁴ C (U) 3% Ethanol solution	LCC 124	> 150 (> 5.55)
23	L-Lysine- ¹⁴ C (U) 3% Ethanol solution	LCC 158	> 125 (> 4.625)
24	L-Malic acid- ¹⁴ C (U) 3% Ethanol solution	LCC 169	2 – 5 (0.074 - 0.185)
25	D-Mannose- ¹⁴ C (U) 80% Ethanol solution	LCC 170	150 - 250 (5.55 - 9.25)
26	Methanol- ¹⁴ C (minimum order 5 mCi)	LCC 71	10 - 50 (0.37 - 1.85)
27	Methyl iodide- ¹⁴ C (minimum order 5 mCi)	LCC 77	10-50 (0.37-1.85)
28 a	Myristic acid- ¹⁴ C Solid	LCC 18	3 (0.111)
28 b	Palmitic acid - ¹⁴ C solid	LCC 21	20 - 30 (0.74 - 1.11)
29	2,4-(Dichloro) Phenoxy acetic acid-2- ¹⁴ C Toluene solution	LCC 141	1 – 5 (0.037- 0.185)
30	L-Phenyl alanine- ¹⁴ C (U) 3% Ethanol solution	LCC 159	> 225 (> 8.325)
31	Potassium cyanide- ¹⁴ C Solid	LCC 29	30 – 50 (1.11-1.85)
32	Potassium thiocyanate- ¹⁴ C Solid	LCC 110	5 – 10 (0.185-0.37)
33	L-Proline- ¹⁴ C (U) 3% Ethanol solution	LCC 128	25 – 50 (0.925- 1.85)
34	L-Serine- ¹⁴ C (U) 3% Ethanol solution	LCC 160	> 75 (> 2.775)
35	Sodium acetate-1- ¹⁴ C Aqueous solution	LCC 32	40 – 50 (1.48- 1.85)
36	Sodium acetate-2- ¹⁴ C Aqueous solution	LCC 33	10 – 50 (0.37- 1.85)
37	Sodium acetate-1,2- ¹⁴ C Aqueous solution	LCC 34	10 – 40 (0.37- 1.48)

S No	COMPOUND	CODE	SPECIFIC ACTIVITY mCi / mmole (GBq / mmole)
38	Sodium bicarbonate- ¹⁴ C Aqueous solution	LCC 35	40 – 50 (1.48- 1.85)
39	Sodium bicarbonate- ¹⁴ C for Phytoplankton productivity studies Aqueous solution, pH 9.5 5uCi / ml / ampoule	LCC 162	2.1 (0.0777)
40	Sodium carbonate- ¹⁴ C Aqueous solution	LCC 37	40 - 50 (1.48-1.85)
41	Sucrose- ¹⁴ C (U) 80% Ethanol solution	LCC 164	> 100 (> 3.7)
42	Thiourea- ¹⁴ C Solid	LCC 45	5 – 10 (0.185- 0.37)
43	L-Threonine- ¹⁴ C (U) 3% Ethanol solution	LCC 130	> 100 (> 3.7)
44	Thymine-2- ¹⁴ C Solid	LCC 46	10 – 50 (0.37- 1.85)
45	L-Tyrosine- ¹⁴ C(U) 3% Ethanol solution	LCC 166	> 225 (> 8.325)
46	Uracil-2- ¹⁴ C Solid	LCC 48	10 – 40 (0.37- 1.48)
47	Urea- ¹⁴ C Solid	LCC 49	10 – 40 (0.37- 1.48)
48	L-Valine- ¹⁴ C (U) 3% Ethanol solution	LCC 132	> 100 (> 3.7)
49	Sodium-2- ¹⁴ C-Malate	LCC 99	5 - 10 (0.18 - 0.37)
50	Starch	LCC 134	----
51	¹⁴ C- Urea Capsules	LCM 1	----
52	n- Hexadecane-1- ¹⁴ C (Reference standard for calibration of LSA / LSS)	LCR 3	2 X 10 ³ dpm / mg

For More Information Contact

Jacon Sebastian, Manager

Board of Radiation & Isotope Technology
Customer Support Services Cell
 Project House, VNP Marg
 Anushakti Nagar, Mumbai - 400 094

Phone : 022- 2556 5535 Mobile 9869454140

Fax: 022- 25581319/ 25562161

Emal: sales@britatom.gov.in

भारत सरकार

परमाणु ऊर्जा विभाग

Department of Atomic Energy

Government of India



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
Board of Radiation & Isotope Technology
(Opp. APMC Fruit Market, Sector-20 Vashi, Navi Mumbai - 400 705)



TRITIUM LABELLED COMPOUNDS

S No	COMPOUND	CODE	SPECIFIC ACTIVITY mCi/mmole (GBq/mmole)
1	Thymidine - methyl - T 50% Ethanol solution	LCT 3	5000 - 10000 (185 - 370)
2	Thymidine - methyl - T 50% Ethanol solution	LCT 53	10000 - 20000 (370 - 740)
3	Tritiated water	LCT 17	1 - 10 mCi / ml (0.037 - 0.37 GBq / ml)
4	Tritiated water	LCT 51	70 - 1000 mCi / ml (2.59 - 37 GBq / ml)
5	Tritiated Water	LCT 17/51	As above
6	Uracil-5-T 50% Ethanol solution	LCT 30	5000 - 10000 (185-370)
7	Uridine -5 -T 50% Ethanol solution	LCT 55	10000 - 20000 (370 - 740)
8	L-Leucine - T(G) 50% Ethanol solution	LCT 11	5000 - 10000 (185 - 370)
9	Tritium Titanium Suspension	TTS	----
10	L-Phenylalanine-T(G)	LCT 13	10000 - 15000 (370 - 555)

Tritium Labelling Service **TLS**

For More Information Contact

P.A. Ramasubramaniam, Manager

Board of Radiation & Isotope Technology
Customer Support Services Cell
Project House, VNP Marg
Anushakti Nagar, Mumbai - 400 094

Phone : 022- 2557 4363 Mobile 9869454130

Fax: 022- 25581319/ 25562161

Emal: sales@britatom.gov.in

भारत सरकार

परमाणु ऊर्जा विभाग

Department of Atomic Energy

Government of India



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
Board of Radiation & Isotope Technology
(Opp. APMC Fruit Market, Sector-20 Vashi, Navi Mumbai - 400 705)



TRITIUM FILLED LUMINOUS SOURCES

S.No.	Code	O.D. (mm)	Length (mm)	Shape	Activity mCi	Brightness / cm ² Micro lamberts
1.	TFS 6	4	25	Curved	300	450
2.	TFS 7	3	10	Straight	120	500
4.	TFS 10	6	35	Curved	1000	500-600
5.	TFS 11	4	26	“	300	520
6.	TFS 12	4	30	“	370	550
7.	TFS 13	3	13	“	140	675
8.	TFS 14	3	12	“	140	300-400
10.	TFS 17	4	29	“	370	400
11.	TFS 18	6	50	Straight	1500	1000
12.	TFS 21	6	42	“	870	1000
13.	TFS 23	22	8 (ht.)	Disc	1000	1500
14.	TFS 26	4	20	Straight	200	440
15.	TFS 27	3	18	Curved	175	500
16.	TFS 33	3	45	Curved	400	600
17.	TFS 34	4	55	“	550	500
18.	TFS 35	3	10	“	90	600
19.	TFS 37	4	45	“	450	500
20.	TFS 101	4	25	“	250	150
21.	TFS 102	22	-	Dome	1700	1300

S. No.	Code	O.D. mm	Length (mm)	Shape	Activity mCi	Brightness / cm ² Micro lamberts	Enquire Price/Source (less than 100 sources)
1.	TFS 8	3	25	Straight	300	200	
2.	TFS 15	6	20	Curved	400	575	

Note: Prices indicated herein are exclusive of packing, forwarding and freight charges.

For More Information Contact

P.A. Ramasubramaniam, Manager

Board of Radiation & Isotope Technology
Customer Support Services Cell
Project House, VNP Marg
Anushakti Nagar, Mumbai - 400 094

Phone : 022- 2557 4363 Mobile 9869454130

Fax: 022- 25581319/ 25562161

Emal: sales@britatom.gov.in

भारत सरकार

परमाणु ऊर्जा विभाग

Department of Atomic Energy

Government of India



विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
Board of Radiation & Isotope Technology
(Opp. APMC Fruit Market, Sector-20 Vashi, Navi Mumbai - 400 705)



CUSTOM SYNTHESIZED LABELLED COMPOUNDS

SrNo	Compound	Code
1.	Ethyl formate- ¹⁴ C	LCCS 1
2.	Ethylene urea- ¹⁴ C	LCCS 2
3.	Hexaconazole- ¹⁴ C	LCCS 3
4.	Acephate- ¹⁴ C (methylthio)	LCCS 4
5.	Ammonium thiocyanate- ¹⁴ C	LCCS 5
6.	Dimethyl isosorbide [Ring U- ¹⁴ C]	LCCS 6
7.	Pyriithiobac- ¹⁴ C sodium	LCCS 7
8.	Diuron- ¹⁴ C	LCCS 8
9.	Kresoxim-methyl- ¹⁴ C	LCCS 9
10.	Sodium [1- ¹⁴ C] lauryl sulphate	LCCS 10
11.	Coenzyme-Acetyl-1- ¹⁴ C	LCCS 11
12.	Chloramphenicol-acetyl-1- ¹⁴ C	LCCS 12
13.	Potassium ³² P-phosphonate	LCSP 1
14.	SPARC-01- ¹⁴ C	LCCS 13
15.	¹⁴ C NIPAM & NIPAM VP Copolymer	LCCS 14

- *Excluding packing, forwarding and freight charges.*

Price Information Contact

P.A. Ramasubramaniam, Manager

Board of Radiation & Isotope Technology
Customer Support Services Cell
Project House, VNP Marg
Anushakti Nagar, Mumbai - 400 094

Phone : 022- 2557 4363 Mobile 9869454130

Fax: 022- 25581319/ 25562161

Emal: sales@britatom.gov.in



Labelled Biomolecules & Molecular Biology Kits

³²P Labelled Nucleotides

S No	Description	Code
1.	γ ³² P-ATP	LCP 1 LCP 101 PLC 101
2.	α ³² P-dCTP	LCP 2 LCP 102 PLC 102
3.	α ³² P-dATP	LCP 3 LCP 103 PLC 103
4.	α ³² P-dGTP	LCP 4 LCP 104
5.	α ³² P-TTP	LCP 5 LCP 105
6.	α ³² P-ATP	LCP 6 LCP 106
7.	α ³² P-GTP	LCP 7 LCP 107
8.	α ³² P-UTP	LCP 8 LCP 108 PLC 108
9.	α ³² P-CTP	LCP 9 LCP 109
10.	α ³² P-pCP	LCP 10 LCP 1010
11.	γ ³² P-GTP	LCP 11 LCP 1011
12.	β ³² P-NAD	LCP 12 LCP 1012
13.	Orthophosphoric acid (aq) Research Grade	LCP 32

1. LCP 1, LCP 2 etc. are supplied in 50% ethanol with concentration of 37 MBq/m (1mCi/ml)
2. LCP 101, 102, etc. are supplied in aqueous solution containing 2-mercaptoethanol (5mM) with concentration of 370 MBq/ml (10 mCi/ml).
3. PLC 101, 102 etc. Permaluci range of ³²P labeled nucleotides are Colour-coded and temperature stabilized (can be transported at room temperature and stored in refrigerators).

Prices would be exclusive of Packing & Freight Charges.

भारत सरकार



परमाणु ऊर्जा विभाग

Department of Atomic Energy

Government of India

विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड
Board of Radiation & Isotope Technology
(Opp. APMC Fruit Market, Sector-20 Vashi, Navi Mumbai - 400 705)



³³P labelled Nucleotides

S No	Description	Code
1.	γ ³³ P-ATP	LCP 331 PLC 331
2.	α ³³ P-dCTP	LCP 332 PLC 332
3.	α ³³ P-dATP	LCP 333 PLC 333
4.	α ³³ P-UTP	LCP 334 PLC 334
5.	Orthophosphoric acid (aq) Research Grade	LCP 33
6.	BRIT can undertake Custom Synthesis of ³³ P labelled nucleotides not included in the list under "C"	CSP 33

LCP 331, LCP 332 etc. are stabilised with 5mM 2-mercaptoethanol.

PLC 331, PLC 332 etc. are colour-coded and temperature stabilised products.

³²P Labelled Nucleotides are normally supplied on fortnightly, ³³P & ³⁵S Labelled Biomolecules on monthly basis.

For More Information Contact

Amir-ul-Islam, Head

Board of Radiation & Isotope Technology
Regional Centre Hyderabad
Jonaki, Centre for Cellular & Mol. Biology
CCMB Campus Hyderabad - 500 007

Phone : 040- 2716 0201/2719 2844

Fax: 040- 2716 0882

Emal: rplc@britatom.gov.in



KITS FOR BIO-ORGANIC RESEARCH

S No	Description	Code
1.	Nick Translation kit-20 reactions	LCK 1
2.	Random Primer labeling kit-30 reactions	LCK 2
3.	5' End labeling kit-10 reactions	LCK 3
4.	Sp 6/T7 Transcription kit 2 x 10 reactions	LCK 4
5.	M-13 Sequencing kit-30 reactions	LCK 5
6.	Taq DNA Sequencing kit-20 reactions	LCK 6
7.	Fluorescein DNA labeling kit (for 25 Random Primer reactions)	LCK 8
8.	Fluorescein DNA detection kit (Colorimetric 40 x 100 cm ² blots)	LCK 9
9.	Fluorescein DNA labeling & detection kit (Chemiluminescence 50 x 100 cm ² blots)	LCK 10
10.	Fluorescein DNA labeling & detection kit (Colorimetric for 25 reactions)	LCK 11
11.	Fluorescein DNA labeling & detection kit (Chemiluminescence for 25 reactions)	LCK 12

TEACHING KITS

Sr No.	Name of the kit	Code
1.	Nick- Translation Teaching Kit	BTK-1 (10 expt.)
2.	Random Primer Teaching Kit	BTK-2 (10 expt.)
3.	DNA Primer Labelling Teaching Kit	BTK-3 (10 expt.)
4.	SDS-PAGE Teaching Kit	BTK-4A (5 expt.) BTK-4B (10 expt.)
5	Restriction digestion Teaching Kit	BTK-5 (10 expt.)
6,	Ligation Teaching Kit	BTK-6 (10 expt.)
7.	Agarose gel electrophoresis Teaching Kit	BTK-7 (10 expt.)

For More Information Contact

Amir-ul-Islam, Head

Board of Radiation & Isotope Technology
Regional Centre Hyderabad
 Jonaki, Centre for Cellular & Mol. Biology
 CCMB Campus Hyderabad - 500 007

Phone : 040- 2716 0201/2719 2844

Fax: 040- 2716 0882

Emal: rplc@britatom.gov.in



³⁵S labelled Biomolecules

S No	Description	Code
1.	L-Methionine-35S	LCS 1
2.	L-Methionine-35S	LCS 2
3.	L-Cysteine-35S	LCS 3
4.	α -35S-dATP	LCS 5
5.	Glutathione-35S	LCS 6
6.	Elegmix	LCS 7
7.	35S Invivo Pro Twinlabelmix	LCS 8

LCS 1 contains 0.1% β - mercaptoethanol and 20 mM potassium acetate.

LCS 2 aqueous solution containing 0.1% β -mercaptoethanol.

LCS 7 Elegmix (70% Methionine, and 30% Cysteine)

LCS 8 Invivo Pro Twinlabel (Mixture of L ³⁵S Methionine 70% + L ³⁵S Cysteine 25% + other ³⁵S labelled amino acid derivatives 5%

CUSTOM SYNTHESIS OF OLIGONUCLEOTIDES

BRIT can undertake Custom Synthesis of Oligonucleotides. The product supplied by BRIT will have an O.D. of 5.

Code	Charges	Desalting Charges
CSON	Enquire per MER	Enquire per sequence.

Price Information Contact

R.R. Jagtap, Manager

Board of Radiation & Isotope Technology
Customer Support Services Cell
 Project House, VNP Marg
 Anushakti Nagar, Mumbai - 400 094

Phone : 022- 2556 5535 Mobile 9869454140

Fax: 022- 25581319/ 25562161

Emal: sales@britatom.gov.in