PACKAGING

The conventionally formulated ^{32}P, ^{33}P and ^{35}S radionucleotides and ^{35}S-amino acids are shipped frozen in polystyrene containers filled with dry ice. The solid carbon dioxide ensures that under normal conditions of temperature and pressure, the contents remain frozen for at least 72 hours. Stabilized products can be shipped at ambient temperature. **NucleoTip™** is available in packs of five tips, pre-loaded with reaction-sized aliquots of ^{32}P-labelled nucleotide and shipped in a specially designed container at ambient temperature.

IsoPack™ packaging system has been designed to provide optimum convenience and safety. ^{32}P-, ^{33}P- and ^{35}S-nucleotides and ^{35}S amino acids are dispensed into IsoPack system.

IsoPack™ packaging system consists of the following parts:

a) Color-coded and screw capped **(B)** polypropylene V-vial **(A)** containing the radioactive material.

b) Color code of caps:

[γ-^{32}P] RIBONUCLEOTIDES	☺	BLUE CAP
[α-^{32}P] DEOXYRIBONUCLEOTIDES	☺	RED CAP
[α-^{32}P] RIBONUCLEOTIDES	☺	GREEN CAP
[^{33}P] NUCLEOTIDES	☺	WHITE CAP
[^{35}S] NUCLEOTIDES	☺	YELLOW CAP
[^{35}S] AMINO ACIDS	☺	PURPLE CAP

c) SteadyBlue and SteadyClear stabilized compounds shipped at ambient temperature are supplied with a splashguard **(E)** made of PTFE. The splashguard is inserted into the screw capped V-vial and it covers the bottom of the V-vial, ensuring that the radioactive solution remains in the enclosed space, so minimizing contamination of the inner surfaces of the vial and cap during ambient shipment. The

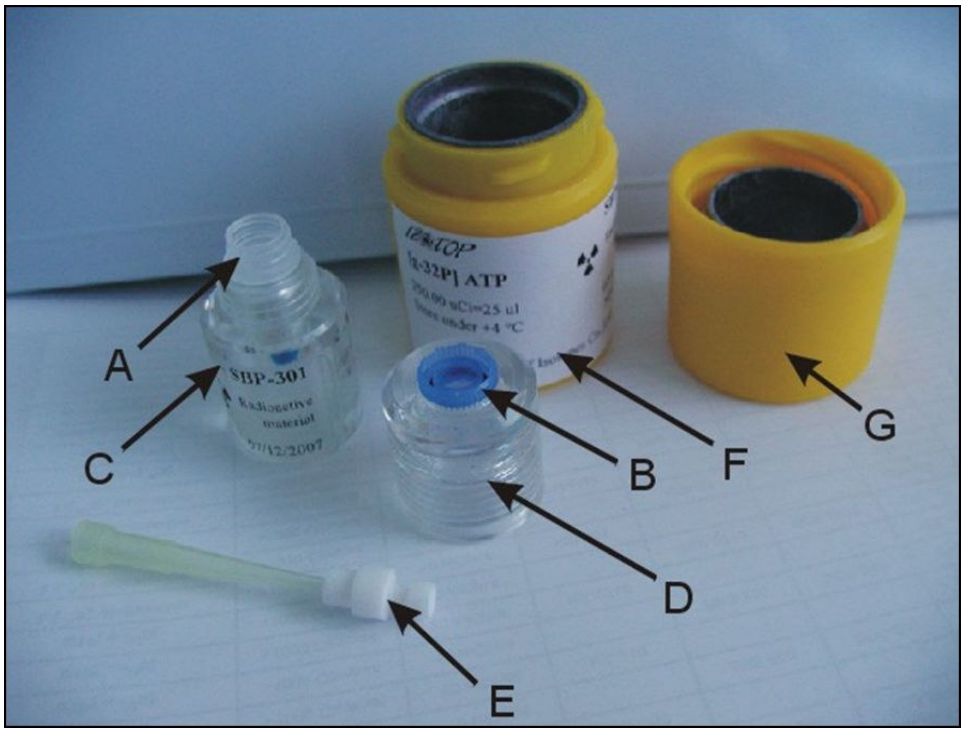
single use disposable splashguard is easily removed using a laboratory pipette tip or forceps and it is disposed of as radioactive waste. Standard products shipped on dry ice do not require a splashguard.

d) The inner container made of transparent polycarbonate holding V-vial and it consists of a screw top **(D)** and a bottom part **(C)** protecting from beta radiation. The top part of the inner container unscrewed and inverted upside-down is a tool for opening the screw capped V-vials and provides hand protection while opening the vial.

e) The inner container containing V-vial is packed into a protective outer container made of yellow polyamide, which held firmly in place the transparent inner container. It consists of a screw top **(G)** and a bottom **(F)** part. The yellow outer container is leaded in case of ^{32}P labeled nucleotides to minimize radiation exposure.

f) The containers ready for shipment are sealed in shrink-wrap film. The film is perforated for easy tear off opening.

IsoPack ™ PACKAGING SYSTEM



NucleoTip ™ PACKAGING