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Product Name :

Sealed Radioactive Source, Americium

Product Code :

SLE/PHY/49



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Description :

Sealed Radioactive Source, Americium (Product Code: SLE/PHY/49) is a 5 µCi (185 kBq) americium-241 sealed source used for alpha-particle experiments in school and college physics laboratories. Its active material sits in a silver-palladium disc that transmits a substantialproportion of the alpha particles plus a small amount of low-energy gamma emission, and themount is colour-coded brown. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Isotope	Americium-241
Activity	5 µCi (185 kBq)
Emissions	Alpha, plus a small amount of low-energy gamma
Active element	Silver-palladium disc; active material enclosed in metal foil
Mount	Cylindrical mount with a 4 mm diameter stem
Window protection	Wire gauze cap over the open window of the mount
Identification	Nature and strength engraved on the mount; colour code brown
Storage	Small lead castle inside a labelled MDF storage box, 100 x 75 x 65 mm high
Documentation	Data sheet enclosed with each source
Product code	SLE/PHY/49
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Americium Source Used For?

The americium source is the usual alpha emitter for teaching radioactivity. With a GM tube and counter, students show that alpha particles have a short range in air and are stopped by a sheet of paper, then compare that with the greater penetration of beta and gamma radiation. The 4 mm stem lets the source be clamped at a fixed, repeatable distance from the detector, which makes it a reliable part of a radiation experiment kit for Indian schools and colleges.

Handle the source only with tongs or forceps, keep the window pointing away from the body, and return it to its lead castle and box as soon as readings are complete. Never touch or try to clean the foil; the wire gauze cap is there to protect it. Americium-241 is long-lived, so the count rate changes very little from one year to the next.

What to Specify When Ordering

- Which sources you need: this americium alpha source, and whether cobalt or strontium sources are needed too

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