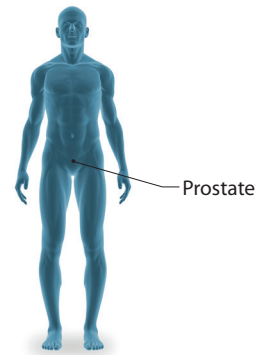


IsoSeed® I-125

Loose Seeds for Prostate Cancer Treatment



IsoSeed® I-125

IsoSeed® characterizes two well-established sealed source models to treat prostate cancer effectively.

"Made in Germany" quality combined with fast product delivery and reliable service.

IsoSeed® I-125 for Prostate Cancer Treatment

These seeds are intended for the permanent treatment of localized prostate cancer. They are delivered as sterile loose IsoSeeds or loaded in Mick™ Magazines and are implanted using needles.

Implantation with the Mick™ TP/TPV Applicator

Each Mick™ Magazine has a capacity of 15 IsoSeeds. With the Mick™ TP/TPV Applicator, IsoSeed® can be implanted in any desired seed spacing distance, thus allowing a geometrically unrestricted prostate seed distribution.

Good Visibility

At Eckert & Ziegler BEBIG, the customer can choose between two different sealed source models for prostate cancer treatment: I25.S17plus and I25.S06. Both seed models are visible under X-ray, fluoroscopy, CT, and MR and demonstrate good ultrasound visibility.

- IsoSeed® I25.S17plus features a full size silver marker and has been designed for visibility under X-ray and fluoroscopic imaging. In addition, it enables MR imaging and opens new perspectives for postoperative planning.
- IsoSeed® I25.S06 contains a thin gold marker within a ceramic carrier, diminishing artifacts and providing good visibility in CT imaging.

"Made in Germany" Quality

The seed production at Eckert & Ziegler BEBIG is performed at the manufacturing facility in Berlin, Germany. It operates under strict quality and regulatory standards. Each single IsoSeed® is required to pass rigorous quality inspections at every production stage before proceeding to the next step.

Calibration to NIST and PTB

The certified source strength of IsoSeed® is based on air kerma measurements. The source strength of IsoSeed® I25.S17plus is calibrated traceable to the primary $S_{K,N99}$ standard of the NIST (National Institute of Standards and Technology). The source strength of IsoSeed® I25.S06 is calibrated traceable to the primary standard of the National Metrology Institute of Germany (PTB).

Guaranteed Biocompatibility

The titanium capsule of IsoSeed® is made of implant grade material. The finished products have been tested for biocompatibility.

On Time Delivery

Due to its geographical localization in the heart of Europe and intelligent stock management, Eckert & Ziegler BEBIG is able to provide IsoSeed® quickly and reliably worldwide, allowing flexible patient scheduling.

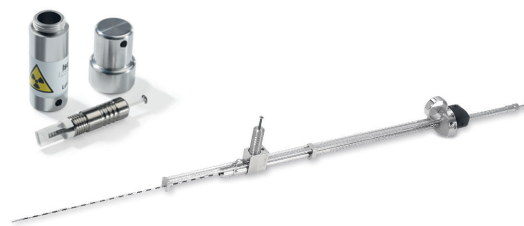
Reliable & Competent Service

Eckert & Ziegler BEBIG is a complete brachytherapy provider whose staff consists of experienced application specialists and service technicians, supported by an extensive network of technical and clinical experts. Eckert & Ziegler BEBIG staff is available to answer inquiries related to seed implantation. Additionally, Eckert & Ziegler BEBIG offers full installation to hospitals, including treatment planning systems, ultrasound scanners and a complete range of accessories.

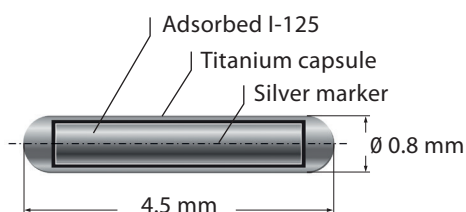
IsoSeed® I-125

IsoSeed® I25.S17plus and I25.S06 for Prostate Cancer Treatment

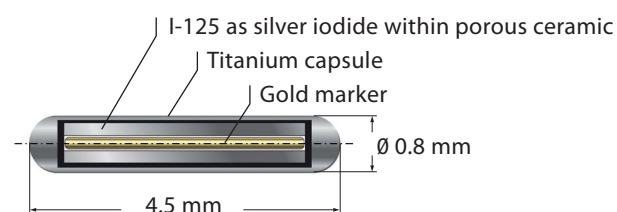
- IsoSeed® is supplied sterile either loose or loaded in Mick™ Magazines
- Eckert & Ziegler BEBIG's seeds are delivered in a shielded stainless steel container
- Ordering number for seeds loaded in Mick™ Magazine: I25.S17plus-SM or I25.S06-SM
- Ordering number for loose seeds: I25.S17plus-SL or I25.S06-SL



IsoSeed® in Mick™ Magazine with shielded container and inserted in Mick™ TP/TPV Applicator



IsoSeed® I25.S17plus features a full size silver marker for fluoroscopy and MR imaging



IsoSeed® I25.S06 contains a thin gold marker specifically designed for optimal visibility in CT imaging

Class number	Air kerma strength in $\mu\text{Gy m}^2/\text{h}$	Apparent activity in mCi	Apparent activity in MBq
-5	0.240 – 0.259	0.189 – 0.204	6.99 – 7.55
-4	0.260 – 0.281	0.205 – 0.221	7.59 – 8.18
-3	0.282 – 0.305	0.222 – 0.240	8.21 – 8.88
-2	0.306 – 0.330	0.241 – 0.260	8.92 – 9.62
-1	0.331 – 0.358	0.261 – 0.282	9.66 – 10.43
0	0.359 – 0.390	0.283 – 0.307	10.47 – 11.36
1	0.391 – 0.423	0.308 – 0.333	11.40 – 12.32
2	0.424 – 0.459	0.334 – 0.361	12.36 – 13.36
3	0.460 – 0.498	0.362 – 0.392	13.39 – 14.50
4	0.499 – 0.540	0.393 – 0.425	14.54 – 15.73
5	0.541 – 0.586	0.426 – 0.461	15.76 – 17.06
6	0.587 – 0.637	0.462 – 0.501	17.09 – 18.54
7	0.638 – 0.690	0.502 – 0.543	18.57 – 20.09
8	0.691 – 0.749	0.544 – 0.590	20.13 – 21.83
9	0.750 – 0.813	0.591 – 0.640	21.87 – 23.68
10	0.814 – 0.882	0.641 – 0.694	23.72 – 25.68
11	0.883 – 0.958	0.695 – 0.754	25.72 – 27.90
12	0.959 – 1.039	0.755 – 0.818	27.94 – 30.27
13	1.040 – 1.127	0.819 – 0.887	30.30 – 32.82
14	1.128 – 1.223	0.888 – 0.963	32.86 – 35.63

Activity classes IsoSeed® I25.S17plus for Prostate Cancer Treatment

Class number	Air kerma strength in $\mu\text{Gy m}^2/\text{h}$	Apparent activity in mCi	Apparent activity in MBq
1	0.357 – 0.386	0.281 – 0.304	10.38 – 11.26
2	0.387 – 0.419	0.305 – 0.330	11.27 – 12.21
3	0.420 – 0.455	0.331 – 0.358	12.22 – 13.25
4	0.456 – 0.493	0.359 – 0.388	13.26 – 14.38
5	0.494 – 0.535	0.389 – 0.421	14.39 – 15.61
6	0.536 – 0.581	0.422 – 0.457	15.62 – 16.94
7	0.582 – 0.630	0.458 – 0.496	16.95 – 18.38
8	0.631 – 0.684	0.497 – 0.539	18.39 – 19.94
9	0.685 – 0.742	0.540 – 0.584	19.95 – 21.64
10	0.743 – 0.806	0.585 – 0.634	21.65 – 23.48
11	0.807 – 0.874	0.635 – 0.688	23.49 – 25.48
12	0.875 – 0.949	0.689 – 0.747	25.49 – 27.65
13	0.950 – 1.029	0.748 – 0.811	27.66 – 30.00
14	1.030 – 1.117	0.812 – 0.880	30.01 – 32.56

Activity classes IsoSeed® I25.S06 for Prostate Cancer Treatment

IsoSeed is a registered trademark of Eckert & Ziegler BEBIG SA and its subsidiaries. Mick is a trade name of Eckert & Ziegler BEBIG SA and its subsidiaries. The mentioned products are not available in all markets. Please contact your local Eckert & Ziegler BEBIG representative for more information.

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