

IsoStrand®

IsoStrand® is designed to provide reliable fixation within prostate tissue.

The IsoStrand® Cutting Fixture is helpful to perform manual strand cutting under radiation protection.

I-125 Seed Chain

The IsoStrand® seed chain consists of 10 IsoSeeds with standard seed-spacer configuration and a 1.0 cm center-to-center spacing. It can accommodate either IsoSeed® I25.S06 or IsoSeed® I25.S17plus.

Good Visibility

IsoStrand® is available with either I25.S06 or I25.S17plus source model designs. Both seed types are visible under X-ray, fluoroscopy, CT and MR and additionally show 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.

Low Migration Rates

One advantage of strands is their low migration rate. IsoStrand® is specially designed to reduce the migration rates still further. IsoStrand® consists of seeds and hourglass-shaped spacers which are embedded in a braided monofilament suture. This special design enables reliable fixation within prostate tissue and helps to reduce seed migration.

IsoStrand® Accessories

Accessories include:

- The needle rack to provide safe storage of loaded needles and reduced radiation exposure.
- The transfer tube for needle post-loading.

Short Delivery Time

Our production processes and intelligent stock management, with facilities centrally located in Europe, ensure fast and reliable delivery times, allowing flexible patient scheduling.

Calibration to NIST and PTB

The certified source strength of IsoSeed® is based on air kerma measurements. The source strength of IsoSeed® I25.S17plus and IsoSeed® I25.S06 are calibrated traceable to the primary standard of the NIST (National Institute of Standards and Technology), USA and/or of the National Metrology Institute of Germany (PTB).

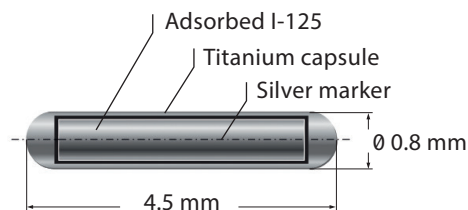
Guaranteed Biocompatibility

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

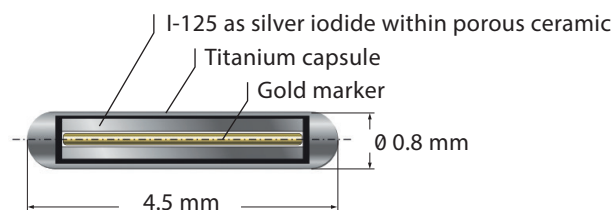
"Made in Germany" Quality

The production of IsoStrand® is performed at the manufacturing facility in Berlin, Germany, operating under strict quality and regulatory standards. Eckert & Ziegler BEBIG is certified according to ISO 13485.

Two Types of Seeds – Good Visibility



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 visibility in CT imaging

Class number	Air kerma rate in $\mu\text{Gy/h}$	Apparent activity in mCi	Apparent activity in MBq
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

The activity of IsoSeeds within IsoStrand® decreases by one class every week. The reference day for the declaration of the certified apparent activity is always a Monday.

Class number	Air kerma rate in $\mu\text{Gy/h}$	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

Components and Accessories

Qty.	Item	Part number
1	IsoStrand® Cutting Fixture	ICF.101
1	IsoCord® Waste Container for Seeds	NLZ.102
1	IsoCord® Tweezers	NLZ.103
1	IsoCord® Scissor	NLZ.104
1	IsoCord® Needle Rack	NLZ.107
1	IsoCord® Transfer Tube	NLZ.112

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The mentioned products are not available in all markets. Please contact your local Eckert & Ziegler BEBIG representative for more information.

**Eckert & Ziegler
BEBIG GmbH**
Robert-Rössle-Str. 10
13125 Berlin
Germany

Phone +49 30 94 10 84 130
Fax +49 30 94 10 84 112
info@bebig.com
www.medical.ezag.com