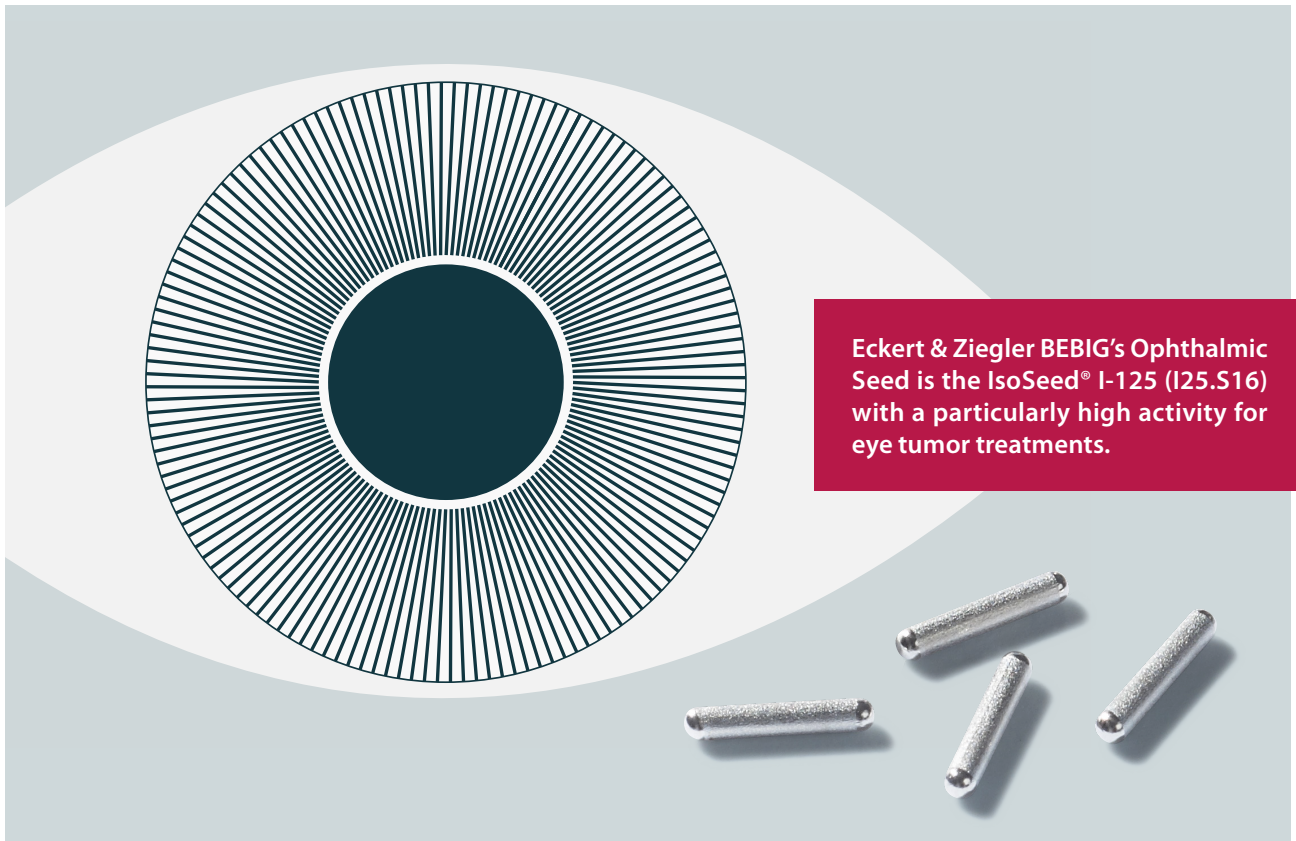

I-125 Ophthalmic Seeds

Individual Eye Tumor Treatment with COMS Eye Applicators



Eckert & Ziegler BEBIG's Ophthalmic Seed is the IsoSeed® I-125 (I25.S16) with a particularly high activity for eye tumor treatments.

Indication

IsoSeed® I25.S16 is used for the treatment of eye tumors, such as uveal melanomas and retinoblastomas. With apparent activities covering a wide range up to 25 mCi, it is even suitable for treating medium-sized to large eye tumors, opening up treatment options beyond Ru-106 Eye Applicators.

Application

IsoSeeds® I25.S16 are delivered non-sterile. For application, they can be inserted via silicone inserts into COMS Plaque Shells. After steam sterilization, the individually assembled COMS Applicator is ready for use. With IsoSeed® I25.S16, treatment planning is carried out based on the seed data of IsoSeed® I25.S06 according to the AAPM TG-43 formalism.

Calibration

The certified source strength is based on air kerma measurements of IsoSeed® which are traceable to the primary standard of the PTB (Physikalisch-Technische Bundesanstalt = National Metrology Institute of Germany). Along with the NIST (National Institute of Standards and Technology), the PTB is a member of the Mutual Recognition Agreement.

Guaranteed Biocompatibility

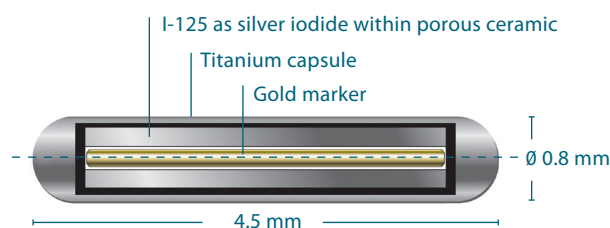
The titanium capsule of IsoSeed® I25.S16 meets ASTM F67 requirements to ensure biocompatibility of Eckert & Ziegler BEBIG Ophthalmic Seeds.

„Made in Germany“ Quality

The Ophthalmic Seeds are manufactured in Germany in compliance with strict quality standards. Each single item has to pass an individual quality check at every production stage before proceeding to the next step. Eckert & Ziegler BEBIG is certified in accordance with ISO 13485.

IsoSeed® I-125 (I25.S16) Details

IsoSeeds® I25.S16 are brachytherapy sources based on iodine-125, with a half-life of 59.41 days. I-125 decays by electron capture, followed by the emission of γ -radiation and X-rays covering an energy range up to 35 keV. The electrons emitted during this decay are absorbed by the titanium capsule.



IsoSeed® I-125 (I25.S16) details

Source Strength

The air kerma strength of every IsoSeed® I25.S16 is measured individually and converted into apparent activity. The mean air kerma strength of the seeds of each individual batch is stated on the certificate. The maximum deviation corresponding to the mean value of the batch is less than $\pm 5\%$.

ISO Classification and Expiration Date

In accordance with ISO 2919, IsoSeed® I25.S16 is classified as C63X11. Eckert & Ziegler BEBIG Ophthalmic Seeds can be reused for up to 6 months, depending on the activity.

IsoSeed® I-125 Article No. I25.S16

Class Number	Air kerma strength in $\mu\text{Gy m}^2/\text{h}$	Apparent activity in mCi	Apparent activity in MBq
A01	0.25 – 1.96	0.2 – 1.5	7.4 – 57
A02	1.97 – 3.23	1.6 – 2.5	58 – 94
A03	3.24 – 4.50	2.6 – 3.5	95 – 131
A04	4.51 – 5.77	3.6 – 4.5	132 – 168
A05	5.78 – 7.04	4.6 – 5.5	169 – 205
A06	7.05 – 8.31	5.6 – 6.5	206 – 242
A07	8.32 – 9.58	6.6 – 7.5	243 – 279
A09	9.59 – 11.48	7.6 – 9.0	280 – 334
A10	11.49 – 13.39	9.1 – 10.5	335 – 390
A12	13.40 – 15.93	10.6 – 12.5	391 – 464
A14	15.94 – 18.47	12.6 – 14.5	465 – 538
A17	18.48 – 22.28	14.6 – 17.5	539 – 649
A20	22.29 – 26.09	17.6 – 20.5	650 – 760
A25	26.10 – 31.75	20.6 – 25.0	761 – 925

Activity classes

IsoSeed is a registered trademark of Eckert & Ziegler GmbH and its subsidiaries. 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