

[90Y]Yttrium Chloride sterile solution



Yttriga radiopharmaceutical precursor, solution

Sterile [99Y]Yttrium Chloride solution for radiolabeling of pharmaceuticals

Full Range Supplier

Eckert & Ziegler Radiopharma GmbH is a full-range supplier of radiopharmaceutical products for diagnostic and therapeutical use. One of our core competences is the production of a carrier free [90Y]Yttrium Chloride solution that can be delivered worldwide.

Marketing Authorization

Our [90Y]Yttrium Chloride solution is registered as a medicinal product in the European Union under the name of Yttriga (EU/1/05/322/001 and EU/1/05/322/002). A Type II DMF (#17226) is submitted to the U.S. FDA.

In the USA Yttriga is regarded as a drug substance.

High Quality and Safety Standards

[90Y]Yttrium Chloride solution is produced in an approved, state of the art, GMP production facility. The high purity of our product enables pre-calibration up to nine days. Enhanced vial shielding is used to protect users of unnecessary exposure in accordance with ALARA principle.

We provide [90Y]Yttrium Chloride ([90Y]YCl₃) as a sterile, endotoxin-free solution. It is to be used only for *in vitro*-radiolabeling of carrier molecules, which have been specifically developed and authorized for radiolabeling with this radionuclide. It is not meant for direct application to patients.

Flexible Dispension

We dispense your required volume of sterile [90Y]Yttrium Chloride solution in 3 ml V-vials (0.1 ml to 3 ml) or in 10 ml P6-vials (0.1 ml to 5 ml) with activities up to 300 GBq (8.11 Ci).

Reliable Delivery and Production Capacity

An international logistics network enables us to deliver [90Y]Yttrium Chloride worldwide within six business days. We have no capacity constraints in our Yttriga production facility.

Calibration Solutions

We provide a range of PTB and NIST-traceable [90Y]Yttrium calibrated solutions. In cooperation with the Eckert & Ziegler Nuclitec we also provide a [90Y]Yttrium calibration solution certified by the DAkkS. All our solutions are available on request.

Experts in Radiolabeling

Eckert & Ziegler Radiopharma GmbH also provides GMP radiolabeling services. We can develop radiolabeling and quality control protocols for your products.





Product Specifications

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Product	[90Y]Yttrium Chloride solution, radiopharmaceutical precursor
Active ingredient	[90Y]Yttrium Chloride, 0.1-300 GBq
Excipients	Hydrochloric Acid (0.04 M)
Half-life	64.1 hours
Decay energy	$E_{max} = 2.28 \text{ MeV}, 100 \% \beta^{-}$
Chemical form	$[^{90}Y]YCI_3$ in 0.04 M HCl solution
Specific activity	Product is carrier free
Activity	As requested 0.1 – 300 GBq per vial (traceable to PTB and NIST) (activity tolerance \pm 10 %)
Volume	As requested 0.1-3 ml in 3ml V-vials or 0.1-5 ml in 10 ml P6-vials
Pre-calibration	up to 9 days
Reference date	$[^{90}Y]Yttrium$ can be produced to meet specific customer requirements for calibration date.
Expiry date	Calibration date + 3 days
Radiochemical purity	> 99 % [⁹⁰ Y]Yttrium as Y ³⁺
Radionuclide purity	[90 Sr]Strontium content $< 10^{-5}$ Bq [90 Sr]Strontium/Bq [90 Y]Yttrium at reference date γ -emitting impurities $< 10^{-4}$ Bq/Bq [90 Y]Yttrium at reference date
Endotoxins	< 30 E.U. per dose
Chemical purity	$>$ 95 % corresponds to 2 pmol / 3 kBq [90 Y]Yttrium
Packaging	3 ml V-glass vial and 10 ml P6-glass vial. Closure with crimp cap. A unique clear plastic inner shield allows the product to be visible during withdrawal using a syringe, which significantly reduces the hand dose.
Steri l ity	Sterile
Indications	In vitro-radiolabeling, not intended for direct application to patients.
Contraindication	Pregnancy
Side effects	No side effects known
Warnings	Radioactive, handle in accordance with radiation protection requirements. Prescription only.
Delivery time	Within 6 business days worldwide

Marketing authorization holder:

Marketing authorisation holder: Eckert & Ziegler Radiopharma GmbH, Robert-Roessle-Str. 10, 13125 Berlin, Germany. Name of medicinal product: Yttriga radiopharmaceutical precursor, solution. Active substance: Yttrium (90Y) chloride, 0.1 - 300 GBq. Excipients: hydrochloric acid (0.04 M). Indications: in vitro radiolabelling, not intended for direct application to patients. Contraindications: pregnancy, hypersensitivity against the active substance or the excipients. Side effects: no side effects known. Warnings: Keep out of the reach and sight of children, radioactive, handle in accordance with radiation protection requirements. Prescription only

Drug Master File in the USA:

In the USA the FDA regards the [%07]Yttrium Chloride Solution as a drug substance. Accordingly Eckert & Ziegler Radiopharma GmbH has submitted a Type II DMF. DMF #17226, Drug Master File holder: Eckert & Ziegler Radiopharma GmbH, Robert-Rössle-Str. 10, 13125 Berlin, Germany

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