

$^{90}\text{Y}$	<b><math>^{90}\text{Y}</math> yttrium chloride precursor for labelling MULTIBONE in vivo kit</b>
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**Product code:** Y-RA-26

**Marketing Authorisation Number:** OGYI-T-9196/01

**Description:** Clear, colourless, sterile and bacterial endotoxin-free solution of  $^{90}\text{Y}$ -yttrium chloride in 0.015 M hydrochloric acid solution

**Activity:** 400 MBq

**Specific activity:** > 400 GBq/g

**Radioactive concentration:** 400 MBq/ml

**Radionuclidic impurities:** < 0.5 %

**Radiochemical purity:** > 95 %

**pH:** 2 - 3

**Expiry time:** 4 days from manufacture

**Other information:**  $^{90}\text{Y}$  yttrium chloride precursor must not be administered directly to the patients. It is for labelling MULTIBONE in vivo kit.  
Only  $^{90}\text{Y}$  - MULTIBONE injection can be administered.

**Indication:** **INDICATION FIELD of  $^{90}\text{Y}$  - MULTIBONE injection:  
RADIONUCLIDE THERAPY**

Palliative, analgesic treatment of previously localised bone metastases. Use of the preparation is highly recommended in the case of the indications listed below:

- palliative treatment of painful bone metastases of breast cancer
- palliative treatment of bone metastases of prostate cancer
- palliative treatment of bone metastases of other tumours.

**Storage:** Store at room temperature in its own container, in accordance with the regulations on radioactive materials.

**Packaging:** Supplied in 6 ml injection vial closed with rubber stopper and tear-off aluminium cap. The labelled vial is placed in a lead container, which contains a paper insert (KT 1-2). The lead container is packed in a labelled tear-off metal can, which contains plastic insert (Type A packaging).

**$^{90}\text{Y}$  ISOTOPE DECAY FACTORS**

min hours	0	20	40	60	80	100	120	140	160	180	200	220	240
	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0
0	1.0000	0.9964	0.9928	0.9892	0.9857	0.9821	0.9786	0.9750	0.9715	0.9680	0.9645	0.9611	0.9576
4	0.9576	0.9542	0.9507	0.9473	0.9439	0.9405	0.9371	0.9337	0.9303	0.9270	0.9236	0.9203	0.9170
8	0.9170	0.9137	0.9104	0.9071	0.9039	0.9006	0.8974	0.8941	0.8909	0.8877	0.8845	0.8813	0.8781
12	0.8781	0.8750	0.8718	0.8687	0.8655	0.8624	0.8593	0.8562	0.8531	0.8501	0.8470	0.8439	0.8409
16	0.8409	0.8379	0.8348	0.8318	0.8288	0.8259	0.8229	0.8199	0.8170	0.8140	0.8111	0.8082	0.8052
20	0.8052	0.8023	0.7995	0.7966	0.7937	0.7908	0.7880	0.7852	0.7823	0.7795	0.7767	0.7739	0.7711
24	0.7711	0.7683	0.7656	0.7628	0.7601	0.7573	0.7546	0.7519	0.7492	0.7465	0.7438	0.7411	0.7384
28	0.7384	0.7358	0.7331	0.7305	0.7278	0.7252	0.7226	0.7200	0.7174	0.7148	0.7122	0.7097	0.7071
32	0.7071	0.7046	0.7020	0.6995	0.6970	0.6945	0.6920	0.6895	0.6870	0.6845	0.6820	0.6796	0.6771
36	0.6771	0.6747	0.6723	0.6698	0.6674	0.6650	0.6626	0.6602	0.6579	0.6555	0.6531	0.6508	0.6484
40	0.6484	0.6461	0.6438	0.6414	0.6391	0.6368	0.6345	0.6322	0.6300	0.6277	0.6254	0.6232	0.6209
44	0.6209	0.6187	0.6165	0.6142	0.6120	0.6098	0.6076	0.6054	0.6033	0.6011	0.5989	0.5968	0.5946
48	0.5946	0.5925	0.5903	0.5882	0.5861	0.5840	0.5819	0.5798	0.5777	0.5756	0.5735	0.5715	0.5694
52	0.5694	0.5673	0.5653	0.5633	0.5612	0.5592	0.5572	0.5552	0.5532	0.5512	0.5492	0.5472	0.5453
56	0.5453	0.5433	0.5413	0.5394	0.5374	0.5355	0.5336	0.5316	0.5297	0.5278	0.5259	0.5240	0.5221
60	0.5221	0.5203	0.5184	0.5165	0.5147	0.5128	0.5109	0.5091	0.5073	0.5054	0.5036	0.5018	0.5000