

## <sup>82</sup>Sr **Strontium-82 Chloride** Radiochemical Solution

Strontium-82 Chloride is used in the manufacturing of Rubidium-82 generators. These generator systems make Rubidium-82 – a Positron Emission Tomography (PET) agent used in myocardial perfusion imaging for patients with suspected or existing coronary artery disease.

Our experts will work closely with you to optimize product and delivery options based on your needs.

### Process Data

#### Nuclear Reaction

$^{85}\text{Rb} (p, 4n) \rightarrow ^{82}\text{Sr}$

#### Assay

High resolution gamma-ray spectrometry at 511 and 776.5 keV via the Rb-82 daughter at equilibrium

### Product Specification

#### Half-Life:

25.35 days

#### Chemical Form

Strontium in  $0.1 \pm 0.05\text{N}$  hydrochloric acid

#### Normality

$0.1 \pm 0.05\text{N}$  HCl

#### Specific Activity\*

No carrier added,  $\geq 25 \text{ mCi/mg}$   
( $\geq 0.92 \text{ GBq/mg}$ )

#### Activity Concentration\*

$\geq 50 \text{ mCi/mL}$  ( $\geq 1.85 \text{ GBq/mL}$ )

#### Radiopurity\*

$\leq 5.0 \text{ mCi } ^{85}\text{Sr}/\text{mCi } ^{82}\text{Sr}$   
( $\leq 5.0 \text{ GBq } ^{85}\text{Sr}/\text{GBq } ^{82}\text{Sr}$ )  
 $\leq 0.0015 \text{ mCi } ^{83}\text{Rb}/\text{mCi } ^{82}\text{Sr}$   
( $\leq 0.0015 \text{ MBq } ^{83}\text{Rb}/\text{MBq } ^{82}\text{Sr}$ )  
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( $\leq 0.0015 \text{ MBq } ^{83}\text{Sr}/\text{MBq } ^{82}\text{Sr}$ )  
 $\leq 0.0002 \text{ mCi } ^{131}\text{Ba}/\text{mCi } ^{82}\text{Sr}$   
( $\leq 0.0002 \text{ MBq } ^{131}\text{Ba}/\text{MBq } ^{82}\text{Sr}$ )

#### Others

$\leq 0.01 \text{ mCi other nuclides}/\text{mCi } ^{82}\text{Sr}$

\*As of reference date and time.

Please note that the Strontium-82 Chloride is not tested for sterility or pyrogenicity.

Verification of its suitability for use in humans is the sole responsibility of the purchaser.

### Packaging

- Hypovial (10 mL, 20 mL)

## Advantages



- Key global supplier since 1989
- High quality product
- Multiple irradiation partners for highly scalable production
- Work collaboratively with customers to reliably meet changing market needs



### World-Class Delivery Service

BWXT Medical has a world-class distribution system and specialized order management system. Our extensive experience and carefully managed transportation logistics mean products reach your destination on time.

## Other BWXT Products:

- Indium (In-111) Oxyquinoline Solution (US only)
- Indium-111 Chloride Radiochemical Solution
- Iodine-123 Sodium Iodide Radiochemical
- Iodine-123 Sodium Iodide Oral Solution (Canada only)
- Germanium-68 Chloride Radiochemical Solution

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