

# One Mission One Campus

Scalable, Reliable, Domestic Production Processes



## Manufacturing Process

### Radium-226 (Ra-226) Target Ra-226 Source Material

### Ra-226 Reprocessing Recover and Reuse

Reclamation, an integral part of NorthStar's process, helps maintain costs and reduces the reliance on external suppliers for such a scarce isotope

### Electron Accelerator Irradiation

#### Rhodotron® TT300-HE

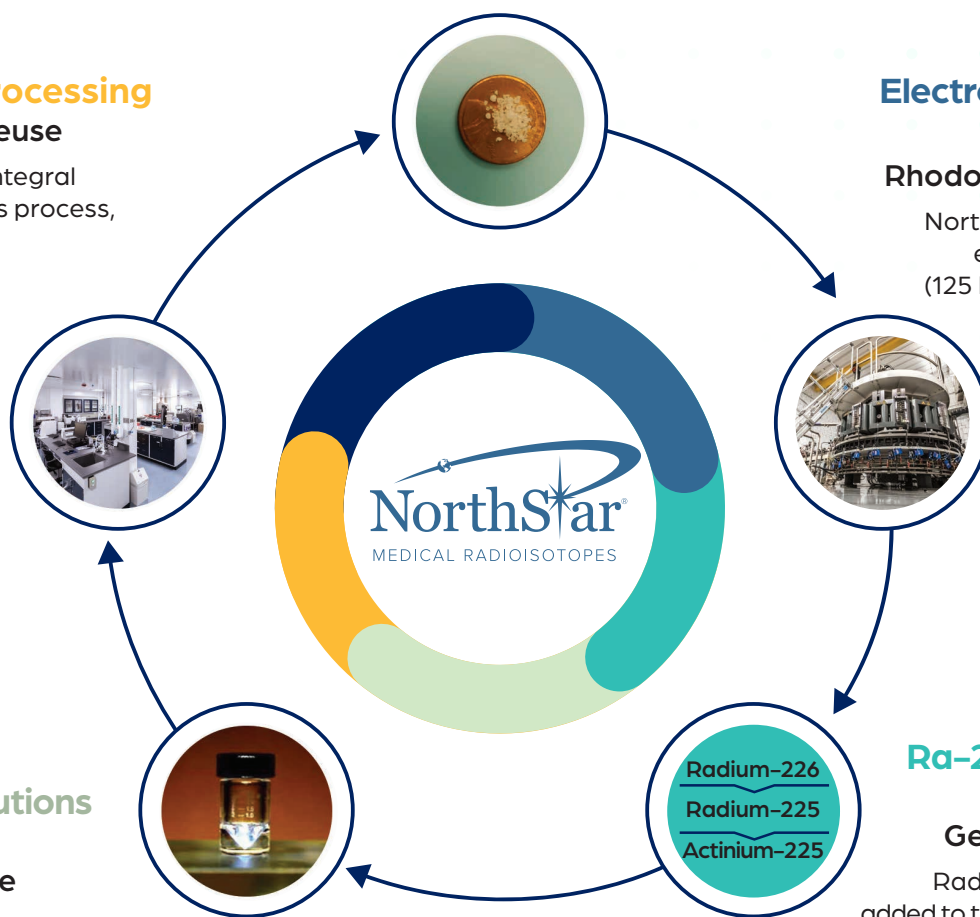
NorthStar's high-energy electron accelerator (125 kW) can produce up to 200 Ci/yr

### Ra-225 Processing Dissolution and Generator Process

Radium-225 (Ra-225) is added to the generator column, where non-carrier-added (n.c.a.) Actinium-225 (Ac-225) grows, in multiple generators and will be used simultaneously

### Ac-225 Generator Elutions n.c.a. Ac-225 10-Day Half-life

NorthStar's electron accelerator process + generator elutions effectively eliminate Actinium-227 (Ac-227)



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225

Ac

ACTINIUM

## Manufacturing Cornerstones



### n.c.a. Ac-225

NorthStar's indirect process eliminates Ac-227



### Dedicated Infrastructure

Commercial scale production capabilities



### Reliable and Scalable

Electron accelerator + Ra-225/Ac-225 generator elutions



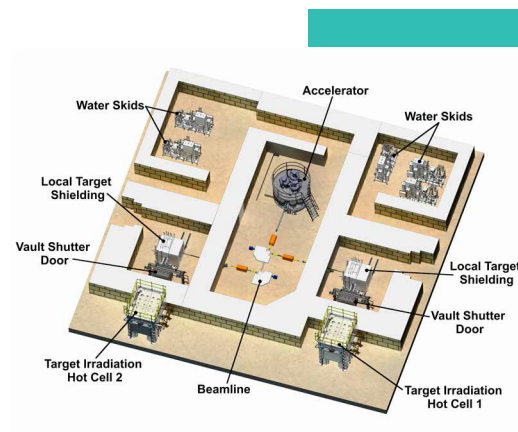
### Regulatory and Quality Expertise

Experienced Regulatory and Quality Professionals



### Flexible Ordering and Logistics

Availability planned to meet commercial needs



Dedicated 30,000 sq ft Ac-225 Production facility



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For more updates, follow us on **LinkedIn**

NorthStar's Ac-225 is not yet approved by the FDA.

