

7th International Symposium on Medical Radioisotopes

COLD KITS – Beyond SPECT





What are Cold Kits?

Any preparation to be reconstituted or combined with radionuclides in a radiopharmaceutical product, usually prior to its administration.

ALL BUT THE RADIONUCLIDE







What are Cold Kits?

EU (Dir 2001/83/EC)

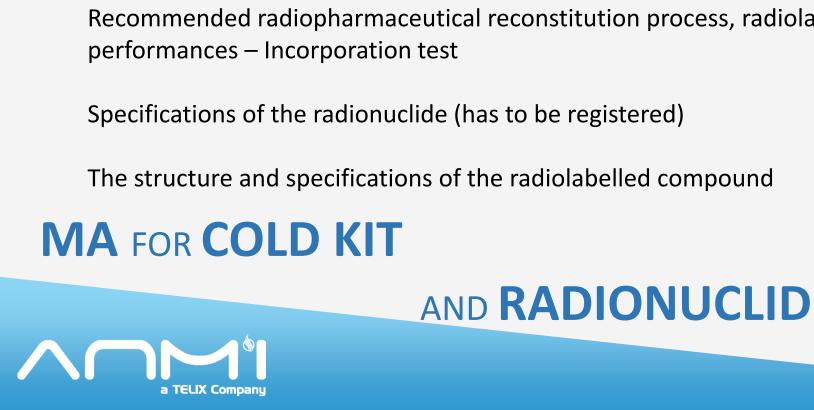
API is part of the formulation intended to bind the radionuclide

Dossier:

Manufacture of the cold kit

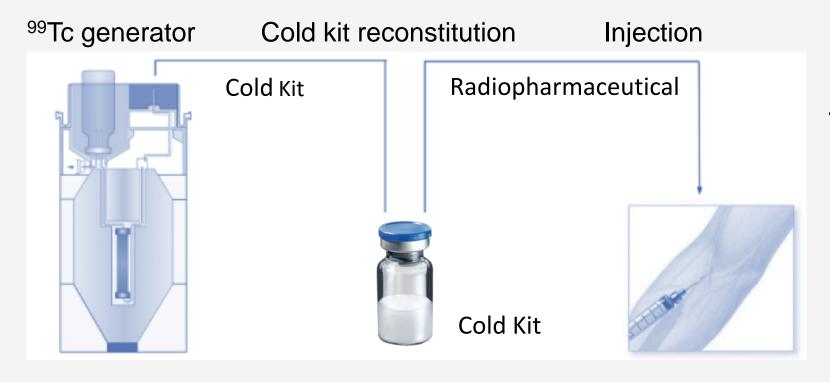
Recommended radiopharmaceutical reconstitution process, radiolabelling performances – Incorporation test

AND RADIONUCLIDE





SPECT and Tc-99m



The **availability** of a radionuclide **drives** the **development** of radiopharmaceuticals

75% OF NUCLEAR MEDICINE PROCEDURES



SPECT and Tc-99m

































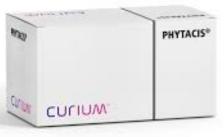
SPECT and Tc-99m





























MANY COLD KITS

MANY **INDICATIONS**





Beyond SPECT – Ga-68

Recent availability of registered Ga-68 Generators

First PET cold kit on the market (AAA) for NET

Other cold kits under development including ANMI PSMA-11 cold kit (Illumet®)

WILL GALLIUM-68 BE THE

NEXT TECHNETIUM-99?







ANMI/Telix – "Kittification"

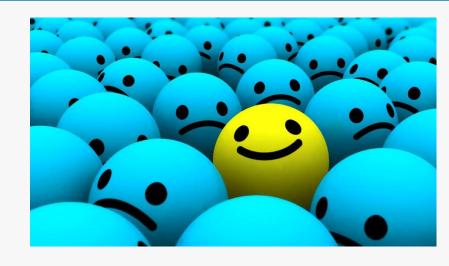
Simple and robust chelation Chemistry

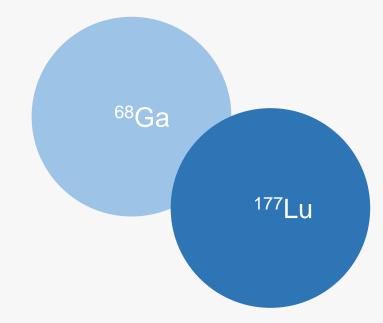
Cost effective

Low regulatory burden

Known clinical practice

Easy to implement







ANMI/Telix – "Kittification"

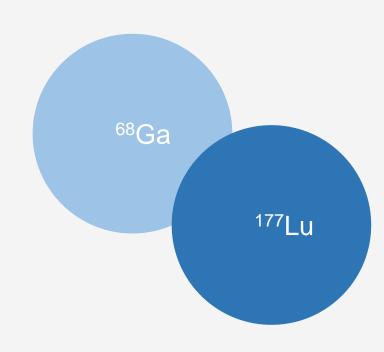
When a radiometal is used

When radiostability is or might be an issue

When the supply chains for the radionuclide is in place

STRAIGHTFORWARD PATH TO NEW RADIOPHARMACEUTCALS







All but the Radionuclide!

Cold kits depends on the radionuclides availability (registration)



Lately, we see a shortage of Ga-68 generators Demand should raise > 8K/Y by 2022

Thera(g)nostic – Ga-68, Lu-177, Ac-225 and Tc-99m

PHARMA AND RADIONUCLIDE SUPPLIERS MUST WORK TOGETHER



To Take back Home

COLD KITS SHOULD BE CONSIDERED IN
RADIOMETAL-BASED
RADIOPHARMACEUTICALS DEVELOPMENT

COLD KITS NEED RADIONUCLIDES
WE MUST WORK TOGETHER TO FACE AND
ANTICIPATE THE NEEDS





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