



### Replacement Products for QCY Mixed Nuclide Reference Solutions

The QCY mixed nuclide reference solutions are no longer available (except for QCYB40 and QCYB41, which are still available, see details below). Replacement products are shown below for QCY44, QCY46, QCY48, QCY58 and QCYK8163.

#### Replacement for QCY44

Product code 7600-5FSA-185KBQ-D, 185kBq in a 5ml 2M HCl solution in a flame sealed ampoule, Dakks certificate. Dispensed every 2 months. Diluent DIL7600-5, 5ml can be diluted up to 50ml, DIL7600-50, 50ml can be diluted up to 500ml.

Nuclide	Activity kBq
Cd109	77.6
Ce139	3.7
Co57	3
Co60	15.2
Cs137	13
Hg203	11.1
Sn113	14
Sr85	17.8
Y88	29.6

#### Replacement for QCY46

Product code 7600-50FSA-185KBQ-D, 185kBq in a 50ml 2M HCl solution in a flame sealed ampoule, Dakks certificate. Dispensed every 2 months. Diluent DIL7600-5, 5ml can be diluted up to 50ml, DIL7600-50, 50ml can be diluted up to 500ml.

Nuclide	Activity kBq
Cd109	77.6
Ce139	3.7
Co57	3
Co60	15.2
Cs137	13
Hg203	11.1
Sn113	14
Sr85	17.8
Y88	29.6

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### **Replacement for QCY48**

Product code 7601-5FSA-185KBQ-D, 185kBq in a 5ml 2M HCl solution in a flame sealed ampoule, Dakks certificate. Dispensed every 2 months. Diluent DIL7601-5, 5ml can be diluted up to 50ml, DIL7601-50, 50ml can be diluted up to 500ml.

Nuclide	Activity kBq
Am241	5.4
Cd109	75.3
Co57	2.9
Co60	14.7
Ce139	3.6
Cs137	12.6
Hg203	10.8
Sn113	13.7
Sr85	17.3
Y88	28.7

### **Replacement for QCY58**

Product code 7501-5FSA-185KBQ-D, 185kBq in a 5ml 2M HCl solution in a flame sealed ampoule, Dakks certificate. Dispensed every 2 months. Diluent DIL7501-5, 5ml can be diluted up to 50ml, DIL7501-50, 50ml can be diluted up to 500ml.

Nuclide	Activity kBq
Am241	5.4
Cd109	51.5
Co57	2
Co60	10
Cr51	64.1
Cs137	8.7
Sn113	9.3
Sr85	11.9
Te123m	2.5
Y88	19.6

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**Replacement for QCYK8163**

Product code 8701-5FSA-185KBQ-D, 185kBq in a 5ml 2M HCl solution in a flame sealed ampoule, Dakks certificate. Dispensed twice a year. Diluent NK8192, 50ml which can be diluted up to 500ml.

Nuclide	Activity kBq
Am241	10.6
Cd109	95
Co57	2.4
Ce139	3.3
Cs137	2.8
Hg203	7.9
Mn54	6.7
Sn113	5.4
Sr85	8.9
Y88	12.4
Zn65	17.8
Cs134	11.8

**QCYB40**

This remains unchanged, 46kBq in a 2ml 0.5M HNO<sub>3</sub> solution in a flame sealed ampoule, Dakks certificate. Available all year on a 4 week delivery. Diluent NQB2392, 5ml can be diluted to 1000ml.

Nuclide	Activity kBq
Am241	4
Pb210	20
Cd109	20
Co57	2

**QCYB41**

This remains unchanged, 132kBq in a 2ml 0.5M HCl solution in a flame sealed ampoule, Dakks certificate. Available all year on a 4 week delivery. Diluent NQB2393, 5ml can be diluted to 1000ml.

Nuclide	Activity kBq
Ba133	6
Co57	6
Ce139	6
Sr85	30
Cs137	12
Mn54	12
Zn65	30
Y88	30

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