

Loading of DC Bead[®] using Doxorubicin SOLUTION in syringe



After loading, the solution in the syringe will retain some red colouration as shown. This is to be expected and is not an indication that the DC Bead[®] has failed to load.



To give required dose of doxorubicin	Number of doxorubicin 50mg solution vials (2mg per ml)	Number of vials of DC Bead
75mg	2	1
100mg	2	2
150mg	3	2

Physical and chemical stability	DC Bead 100-700 μ m
Doxorubicin-loaded DC Bead (75mg/2ml)	14 days (at 2-8°C)
Doxorubicin-loaded DC Bead with non-ionic contrast	7 days (at 2-8°C)

Loading times for up to 50mg or 75mg of doxorubicin per vial of DC Bead

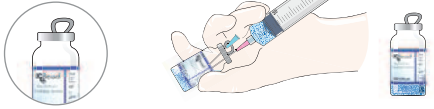
Doxorubicin Uptake	100-300 μ m up to		300-500 μ m up to		500-700 μ m up to	
	50mg per vial	75mg per vial	50mg per vial	75mg per vial	50mg per vial	75mg per vial
93%	3 hours	4 hours	7 hours	10 hours	8 hours	24 hours
98%	4 hours	5 hours	8 hours	14 hours	10 hours	30 hours
100%	5 hours	7 hours	9 hours	18 hours	11 hours	36 hours

* Tolerance of $\pm 3\%$

Loading and preparation of DC Bead must be carried out using strict aseptic technique under controlled conditions.

Step 1

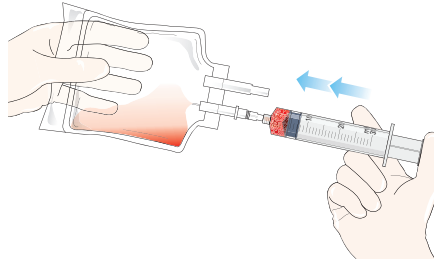
Take flip cap off DC Bead vial(s) but do not remove metal around the bung. For doses >50mg, more than one syringe will be required for loading DC Bead with doxorubicin solution. Transfer each vial of DC Bead via an 18-gauge needle or equivalent into a 50-60ml syringe.



SOLUTION

Step 4

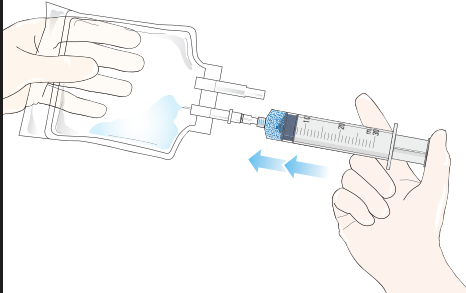
When loading time is complete, expel the excess liquid from the syringe. A 5-micron filter needle can help with this process.



SOLUTION

Step 2

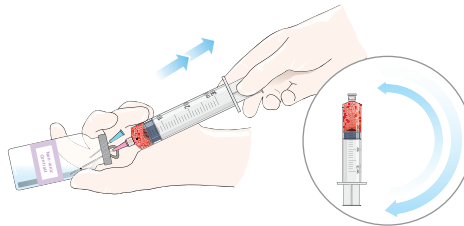
Expel excess packing solution from the syringe. A 5-micron filter needle can help with this process.



SOLUTION

Step 5

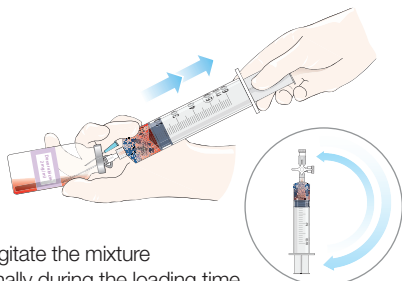
To prepare the loaded DC Bead for injection, add 5-10ml of non-ionic contrast medium per ml of DC Bead and mix gently to give a good suspension. Inject solution at a rate of 1ml per minute.



SOLUTION

Step 3

Draw up the required dose of doxorubicin into the syringe containing DC Bead before standing for required loading time.



SOLUTION

Gently agitate the mixture occasionally during the loading time.

DC Bead[®] Ordering Information

Nominal Bead Size	Volume of Beads	Product Code
100-300 μ m	2ml	DC2V103
300-500 μ m	2ml	DC2V305
500-700 μ m	2ml	DC2V507

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