

Loading of DC Bead[®] using Doxorubicin POWDER in vial



After loading, the solution in the vial 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 vials doxorubicin powder (50mg)	Number of vials of DC Bead
75mg	2	1
100mg	2	2
150mg	3	2

Physical and chemical stability	DC Bead 100-700µm
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)

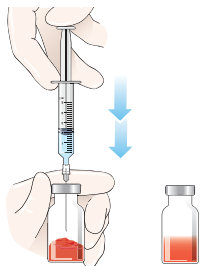
Loading time for up to 37.5mg of doxorubicin per ml of DC Bead (75mg per vial)			
Doxorubicin Uptake	100-300µm	300-500µm	500-700µm
90%*	30 minutes	45 minutes	60 minutes
98%*	60 minutes	90 minutes	120 minutes

* Tolerance of ±3%

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

Step 1

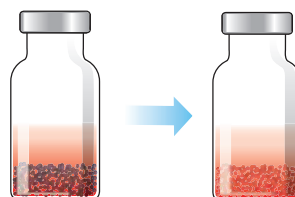
Reconstitute each 50mg doxorubicin vial with 2ml of sterile water for injection (NOT sodium chloride). Mix well to obtain a clear red solution.



POWDER

Step 4

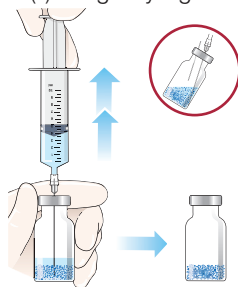
Agitate the DC Bead with doxorubicin solution gently to encourage mixing and allow to stand for required loading time. Gently agitate the mixture occasionally during loading time.



POWDER

Step 2

Take flip cap off DC Bead vial(s) but do not remove metal around the bung. Remove as much saline as possible from DC Bead vial(s) using a syringe and filter needle.

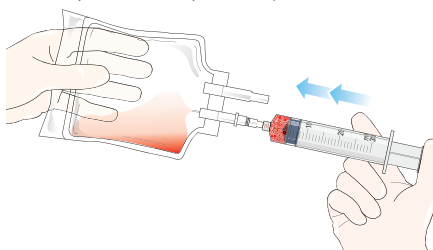


Pierce bung with a second needle to eliminate vacuum. If a filter needle is not available, place flattened tip of needle against side of vial to prevent beads being drawn into the needle.

POWDER

Step 5

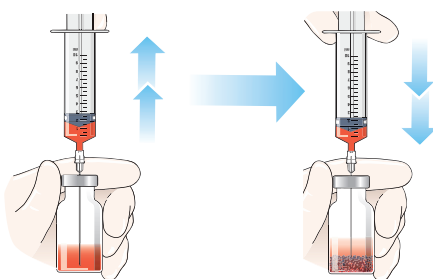
When loading time is complete, transfer the loaded beads into a 20-30ml syringe using an 18-gauge needle or equivalent. Expel excess liquid (a 5-micron needle can help with this process).



POWDER

Step 3

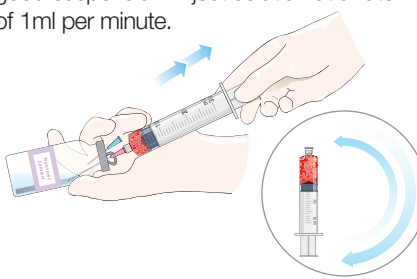
Using a syringe and needle add the required dose of doxorubicin solution directly to the vial(s) of DC Bead.



POWDER

Step 6

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.



POWDER

DC Bead[®] Ordering Information

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

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