

MIXING INSTRUCTIONS & SET TIME CHART

Note:

- The veterinary surgeon is responsible for determining antibiotic type and dosage to be used. Antibiotic is not included in kit.
- Four mixing techniques are provided for optimal mixing of powdered and liquid antibiotics:

- 1 **Standard** - Powder
- 2 **Standard** - Liquid
- 3 **Non-Standard** - Powder
- 4 **Non-Standard** - Liquid



- A Set Time Chart is provided to approximate set time for commonly used antibiotics. Set times vary based on antibiotic type and dosage. It is advisable to prepare beads within a sterile field prior to the start of a surgical case.

Set Time Chart:

Antibiotic	Mixing Technique	Approximate Set Time
Gentamicin (160mg-400mg)	Standard – Liquid	20 Minutes
Amikacin (500mg)*	Non-Standard - Liquid	50 Minutes*
Amikacin (1g)	Standard – Liquid	4 Hours
Vancomycin (500mg-1g)	Standard – Powder	10 Minutes
Cefazolin (500mg-1g)	Non-Standard – Powder	15 Minutes
Amikacin (500mg) / Cefazolin (500mg-1g)**	Non-Standard – Liquid	60 Minutes**
Gentamicin (160-400mg) / Cefazolin (500mg-1g)***	Standard – Liquid	15 minutes***
Amikacin (500mg) / Vancomycin (500mg-1g)**	Non-Standard – Liquid	60 minutes**
Gentamicin (160-400mg) / Vancomycin (500mg-1g)***	Standard – Liquid	15 Minutes***
Meropenem (500mg-1g)	Non-Standard – Powder	25 Minutes
Ceftazidime (500mg-1g)	Non-Standard – Powder	25 Minutes
Ampicillin/Sulbactam (750mg)	Non-Standard – Powder	30 Minutes
Ceftiofur (500mg)	Non-Standard – Powder	30 Minutes
Florfenicol (600mg)*	Non-Standard – Liquid	90 Minutes*
Amphotericin B (50mg)	Non-Standard – Powder	95 Minutes

* Set time is based on 2ml of mixing solution and 2ml of liquid antibiotic using the Non-Standard - Liquid mixing technique.

** Use Non-Standard - Liquid mixing technique and add antibiotic powder at the same time as liquid antibiotic. Set time based on 2ml of liquid antibiotic.

*** Combine KERRIER powder with antibiotic powder, then add 4ml of liquid antibiotic (no mixing solution required).








DNS (Does Not Set)

Imipenem - Powder
Enrofloxacin - Liquid
Clindamycin - Liquid

MIXING INSTRUCTIONS

STANDARD








Powder

-  1
Empty KERRIER powder into mixing bowl
-  2
Add antibiotic powder to mixing bowl and combine
-  3
Add mixing solution (4ml saline) to mixing bowl
-  4
Use mixing tool to stir until paste is formed
-  5
Use mixing tool to spread paste into either 3mm or 5mm cavities of bead mold mat
-  6
Allow to set, then flex mold mat to release beads
-  7
Compress bead between thumb and finger to ensure fully set

Liquid



CAUTION: A total of 4ml of liquid is required to mix KERRIER powder to a paste. Combinations of liquid antibiotics and mixing solution (saline) must equal 4ml.

-  1
Empty KERRIER powder into mixing bowl
-  2
Add liquid antibiotic to mixing bowl
-  3
If needed, add additional mixing solution (saline) to equal a total of 4ml of liquid to mixing bowl
-  4
Use mixing tool to stir until paste is formed
-  5
Use mixing tool to spread paste into either 3mm or 5mm cavities of bead mat
-  6
Allow to set, then flex mold mat to release beads
-  7
Compress bead between thumb and finger to ensure fully set

NON-STANDARD MIXING INSTRUCTIONS

NOTE: For slow setting antibiotics (example: Amikacin), a Non-Standard technique should be used to accelerate set time. Mixing KERRIER powder with mixing solution (saline) first without antibiotic, will jump start the setting process – accelerating set time.

Powder



1

Empty KERRIER powder into mixing bowl



2

Add mixing solution (4ml saline) to mixing bowl



3

Use mixing tool to stir for 60 seconds



4

Add antibiotic powder to mixing bowl.



5

Use mixing tool to stir for 30 seconds until paste formed



6

Use mixing tool to spread paste into either 3mm or 5mm cavities of bead mat



7

Allow to set, then flex mold mat to release beads



8

Compress bead between thumb and finger to ensure fully set

Liquid



CAUTION: A total of 4ml of liquid is required to mix KERRIER powder to a paste. Combinations of liquid antibiotics and mixing solution (saline) must equal 4ml.



1

Empty KERRIER powder into mixing bowl



2

Determine volume of liquid antibiotic to be used



3

If needed, calculate amount of mixing solution (saline) needed to equal the required 4ml of total liquid



4

Add calculated amount of mixing solution (saline) to mixing bowl (without antibiotic) and stir thoroughly for 60 seconds.



5

Add liquid antibiotic to mixing bowl and stir for 30 seconds until a paste is formed.



6

Use mixing tool to spread paste into either 3mm or 5mm cavities of bead mat



7

Allow to set, then flex mold mat to release beads



8

Compress bead between thumb and finger to ensure fully set