

Y-SITE INJECTION DRUG COMPATIBILITY CHART with Parenteral Nutrition Solutions (TPN)

For this chart, lipids (fat emulsion) = INTRALIPID ONLY

- Locate the drug name in the first column. If different concentrations are indicated, determine which concentration applies.
- Under "TPN Admixture Type", check the compatibility of the drug with the type of TPN admixture the patient is receiving (3-in-1 versus 2-in-1). Note: 2-in-1 contains dextrose, amino acids (TRAVASOL), and may also contain electrolytes, vitamins and trace elements only in one bag. 3-in-1 also called Total Nutrient Admixture (TNA) contains lipids (fat emulsion) in addition to items listed under 2-in-1 in one bag.
- For 2-in-1 TPN, when column reads C¹, if there is a piggy-back lipid (fat emulsion), it must be interrupted while drug is infused.
- Check if the TPN admixture the patient is receiving contains insulin. If so, check the last two columns to determine whether this changes the compatibility.

Drug	TPN Type		insulin in TPN
	3-in-1	2-in-1	
acyclovir	I	I	I
amikacin 5 mg/mL or less	C	C	
amikacin more than 5 mg/mL	I	C ¹	
aminophylline 2.5 mg/mL	C	C	I
aminophylline more than 2.5 mg/mL	I	I	I
amiodarone			
amphotericin B	I	I	I
ampicillin 20 mg/mL or less	C	C	C
azithromycin			
calcium chloride	I	I	I
calcium gluconate 40 mg/mL or less (0.09 mmol/mL or less)	C	C	C
ceFAZolin	C	C	C
cefoTAXime	C	C	
cefTAZidime	C	C	
cefTRIAxone	I	I	I
cefuroxime	C	C	
chloramphenicol		C ¹	
ciprofloxacin	I	I	
clindamycin	C	C	
cloxacillin 10 mg/mL or less		C	
cotrimoxazole	C	C	
cyclophosphamide	C	C	
cycloSPORINE 5 mg/mL or more	I	I	I
cytarabine	C	I	I
dimenhyDRINATE			
diphenhydrAMINE	C	C	
DOBUTamine	C	C	C
DOPamine	I	C ¹	I
erythromycin lactobionate	I	C ¹	

¹ The piggy-back infusion of lipid emulsion (if any) should be interrupted during co-infusion of the 2-in-1 TPN with this medication

3-in-1 = TRAVASOL + dextrose + lipid emulsion + additives all in one bag

2-in-1 = TRAVASOL + dextrose + additives in one bag ± lipid bag administered separately via piggy-back

C = **Compatible**; may be mixed via a Y-site. Compatibility depends upon many factors including temperature, pH, IV fluid, concentration, order of mixing and brand of drug.

Check tubing below Y-site carefully for discoloration, cloudiness or precipitation

I = **Incompatible DO NOT MIX**

blank = **DO NOT MIX**; conflicting or no compatibility information available

Drug	TPN Type		insulin in TPN
	3-in-1	2-in-1	
fentanyl citrate	C	C	
fluconazole	C	C	
foscarnet	I	I	I
furosemide 3 mg/mL or less	C		
ganciclovir	I	I	I
gentamicin	C	C	C
heparin 25 units/mL or less	C	C	C
heparin 100 units/mL	I	C	C
hydrocortisone sodium succinate	C	C	I
HYDROmorphine	I	I	I
imipenem-cilastatin	C	C	C
insulin, regular	C	C	C
lidocaine	C		C
magnesium sulfate 0.4 mmol/mL or less	C	C	C
magnesium sulfate more than 0.4 mmol/mL	I	C ¹	C
mannitol	C	C	
meperidine	C	C	C
meropenem	C		C
metoclopramide	C	I	C
metroNIDAZOLE	C	C	
midazolam	I	I	I
milrinone		C	C
morphine 1 mg/mL or less	C	C	C
morphine 15 mg/mL or more	I	I	I
MOXIflouxacin			
nitroglycerin	C	C	C
NORepinephrine	C	C	I
octreotide	C	C	
ondansetron	I	C ¹	
pantoprazole			
penicillin G sodium		C ¹	C
phenytoin	I	I	I
piperacillin-tazobactam	C	C	
potassium chloride	C	C	C
POTASSIUM phosphate	I	I	I
procainamide			
proPOFol		C	I
sodium bicarbonate	I	I	I
tobramycin	C	C	C
vancomycin	C	C	C
vitamin K	C	C	C

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