



HEPARIN ALTERNATIVES – SODIUM CITRATE 4% & ACD-A

Sodium Citrate 4% and ACD-A (Anticoagulant Citrate Dextrose Solution) are acceptable Heparin alternatives for patients that are allergic to Heparin or have religious rules or customs that conflict with the use of Heparin.

Sodium Citrate 4%

Here is a link for more info on Sodium Citrate 4% - <https://cjasn.asnjournals.org/content/3/2/369>

The conversion for **Sodium Citrate 4%** is **1:10**.

ACD-A – Anticoagulant Citrate Dextrose Solution

Another effective alternative for Heparin is **ACD-A, Anticoagulant Citrate Dextrose Solution**. Here is a link for more detailed information - <https://www.drugs.com/pro/acd-a.html>

The recommended dosage of **ACD-A** for the Standard Ozone/UBI IV protocol is **8ml/60-ml of blood** (8ml equivalent to 1000 units of heparin if undiluted).

You can also get a **diluted bag** from McKesson (see image below) and use **5-7cc per 60cc of blood**.



Possible Suppliers of ACD-A:

<https://www.fishersci.com/shop/products/acd-formula-a/50152229>

<https://www.texasstarpharmacy.com/>

<https://www.drugcrafters.com/>