

## Bud XL Organic!

**Micronutrients:** 7 of them are "essential" for flowering plants: B, Cl, Cu, Fe, Mn, Mo, Zn  
3 "beneficial": Co, Ni, Si

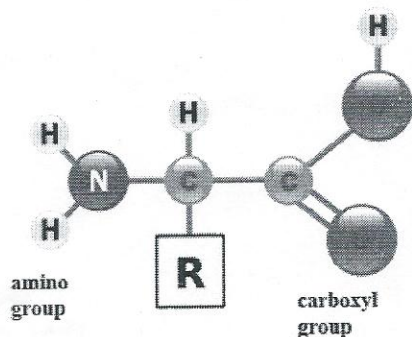
It would make sense that Boron, Chloride, and Copper are included in Bud XL, as these nutrients are involved in late-flowering activity. Boron, in particular, is involved in carbohydrate transport.

### Amino acids:

- There are 20 essential amino acids and many beneficial derivatives of these; amino acids are the building blocks of proteins and are utilized in root zones as chelating agents, improving the microflora of the medium and facilitating the assimilation of nutrients.

- Certain amino acids are directly related to stress physiology and help plants prevent and recover from symptoms of high-stress situations (such as extremely high levels of P and K in Shooting Powder)

- Amino acid derivatives in Bud XL include Tripeptide Glutamine



General structure of an  
 $\alpha$  - amino acid

**Biotin (Vitamin B12)** - coenzyme required for activation of enzymatic processes; isomerases, methyltransferases, and dehalogenases are enzymes in which biotin acts as a coenzyme; also plays a role in energy production

