

|     |      |      |      |      |                   |                   |
|-----|------|------|------|------|-------------------|-------------------|
| H + | O -  | Ag + | Na + | Zn + | CO <sub>3</sub> - | OH -              |
| H + | O -  | Ag + | Na + | Zn + | CO <sub>3</sub> - | OH -              |
| H + | O -  | Ag + | Na + | Zn + | SO <sub>4</sub> - | OH -              |
| H + | O -  | Ag + | Na + | Zn + | SO <sub>4</sub> - | OH -              |
| H + | O -  | Ag + | Cu + | Mg + | NO <sub>3</sub> - | NH <sub>4</sub> + |
| H + | O -  | Ag + | Cu + | Mg + | NO <sub>3</sub> - | NH <sub>4</sub> + |
| H + | Cl - | Ag + | Cu + | Mg + | Fe +              |                   |
| H + | Cl - | Ag + | Cu + | Mg + | Fe +              |                   |
| N - | Cl - | S -  | C +  | Ba + | Ca +              |                   |
| N - | Cl - | S -  | C +  | Ba + | Ca +              | →                 |

|     |                 |   |                 |      |      |      |     |     |
|-----|-----------------|---|-----------------|------|------|------|-----|-----|
| -   | OH              | - | CO <sub>3</sub> | Zn + | Na + | Ag + | - O | H + |
| -   | OH              | - | CO <sub>3</sub> | Zn + | Na + | Ag + | - O | H + |
| -   | OH              | - | SO <sub>4</sub> | Zn + | Na + | Ag + | - O | H + |
| -   | OH              | - | SO <sub>4</sub> | Zn + | Na + | Ag + | - O | H + |
| +   | NH <sub>4</sub> | - | NO <sub>3</sub> | Mg + | Cu + | Ag + | - O | H + |
| +   | NH <sub>4</sub> | - | NO <sub>3</sub> | Mg + | Cu + | Ag + | - O | H + |
| +/- | Fe              | + | Mg              | Cu + | Ag + | - Cl | H + |     |
| +/- | Fe              | + | Mg              | Cu + | Ag + | - Cl | H + |     |
| +/- | Ca              | + | Ba              | C +  | S -  | - Cl | - N |     |
| <-- | Ca              | + | Ba              | C +  | S -  | - Cl | - N |     |