Answer on Question 76128 in General Chemistry

- 1. Solutions of magnesium sulfate and lithium chloride are mixed
- 2. Solutions of barium nitrate and lithium sulfate are mixed
- 3. The neutralization of acetic acid and calcium hydroxide solution Solution:

1 In the system no reaction occurs. All the salts ${
m MgS}O_4$, ${
m LiC}l_2$, ${
m MgC}l_2$ and ${
m Li}_2{
m S}O_4$ are soluble in water.

2 Ba(N
$$O_3$$
)₂ + L i_2 S O_4 =BaS O_4 \\ +2LiN O_3

B a^{2+} + 2N O_3^- +2L i^+ +S O_4^{2-} = BaS O_4 +2L i^+ +2N O_3^-

B a^{2+} + S O_4^{2-} = BaS O_4

3. 2C H_3 COOH + Ca(OH)₂ = Ca(C H_3 COO)₂ +2 H_2 O

2C H_3 COO $^-$ +2 H^+ +C a^{2+} +2O H^- = C a^{2+} +2C H_3 COO $^-$ +2 H_2 O

 H^+ + O H^- = H_2 O

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