



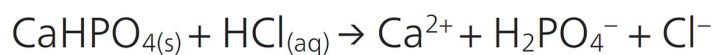
Application Note AN-RS-054

ラマン分光法によるリン酸反応のリアルタイムモニタリング

[1]
0[2]0[3]

(CaSO₄·2H₂O)

mL(1)1.0 mol/L(H₂SO₄)0.25 mLHCl(SO₄2)
(CaHPO₄DCP)100 mLDCP 500 mg0.5 mol/L(HCl)10



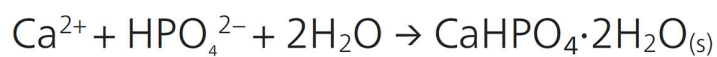
1

1mol/L(NaOH)0.25mL1064 nm(SpecSuite100%301)
913 pHElectrode Plus(6.0262.100)pHpH4HPO42

Ca2+(CaHPO4·2H2O)(2, 3)

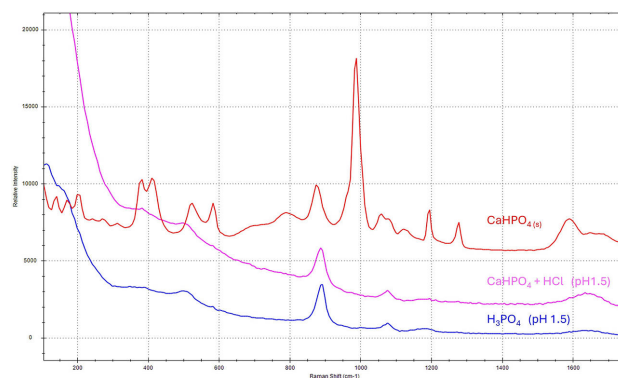


2



3

DCP(1)[4]0.5 mol/L HCl889cm11189cm1(H3PO4)
1076cm1(H2PO4)H3PO4DCP

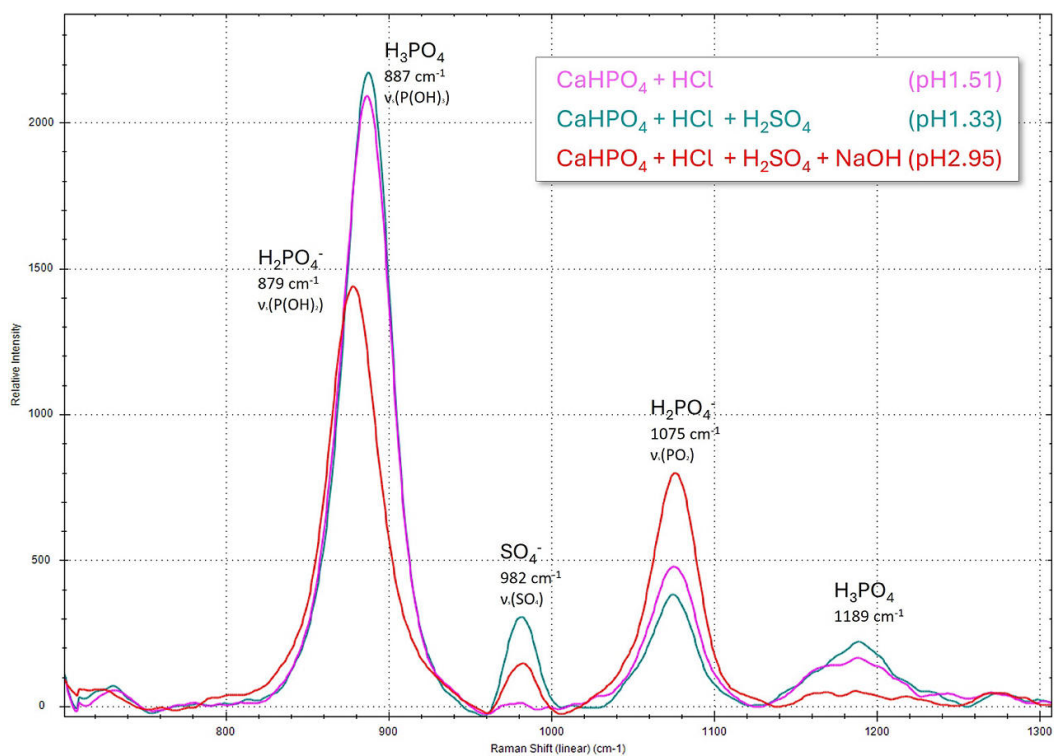


1. / DCP () / HCl DCP () / ()

983cm1SO422(4)pHSO42(2)

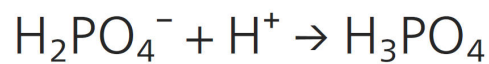


4



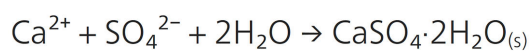
2. / DCP HCl () / () / pH 2.95 ()

H₂SO₄H₂PO₄H₃PO₄(5).



5

1.0mol/L NaOHpHpH 2.95889cm1879cm11189cm1
1076cm1H₃PO₄(2)SO₄252%16%Ca²⁺SO₄2(6)[4]

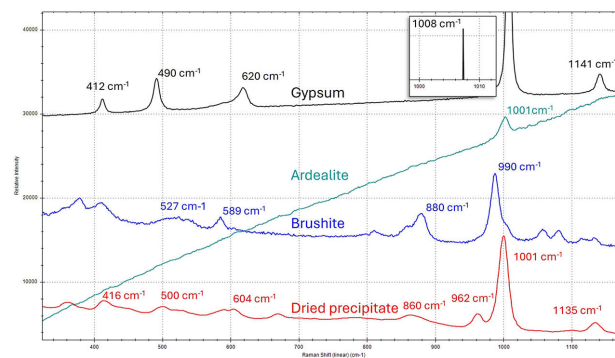


6

(3)1001cm11008cm1(4)(Ca₂(HPO₄)(SO₄)·4H₂O)[5]
1001cm1SO₄2NaOHpH(3.5~4)



3. BAC151B



4.

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