

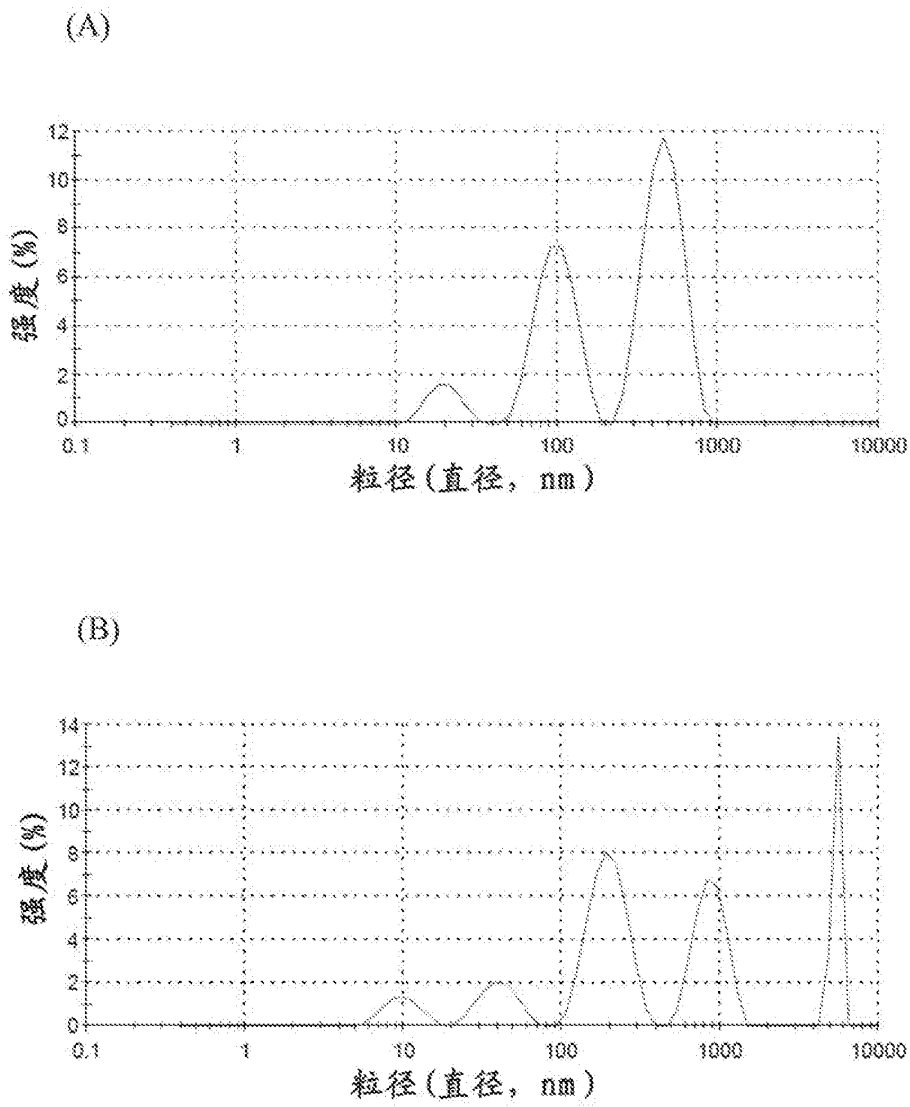


图 1

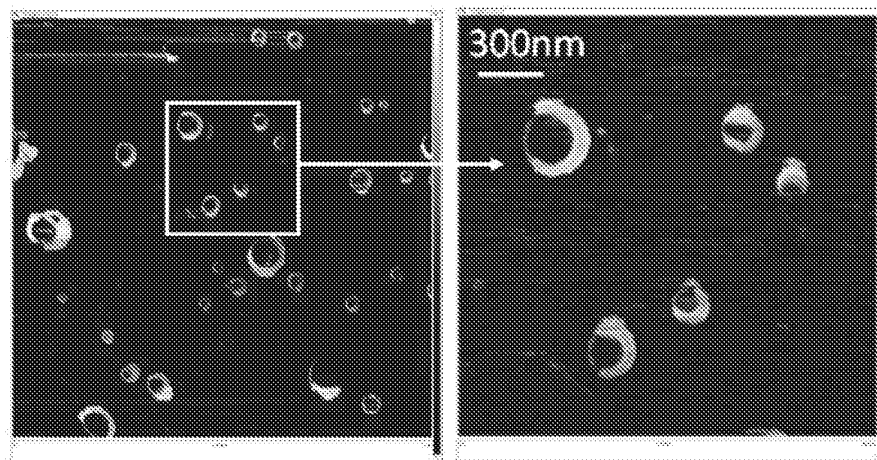


图 2

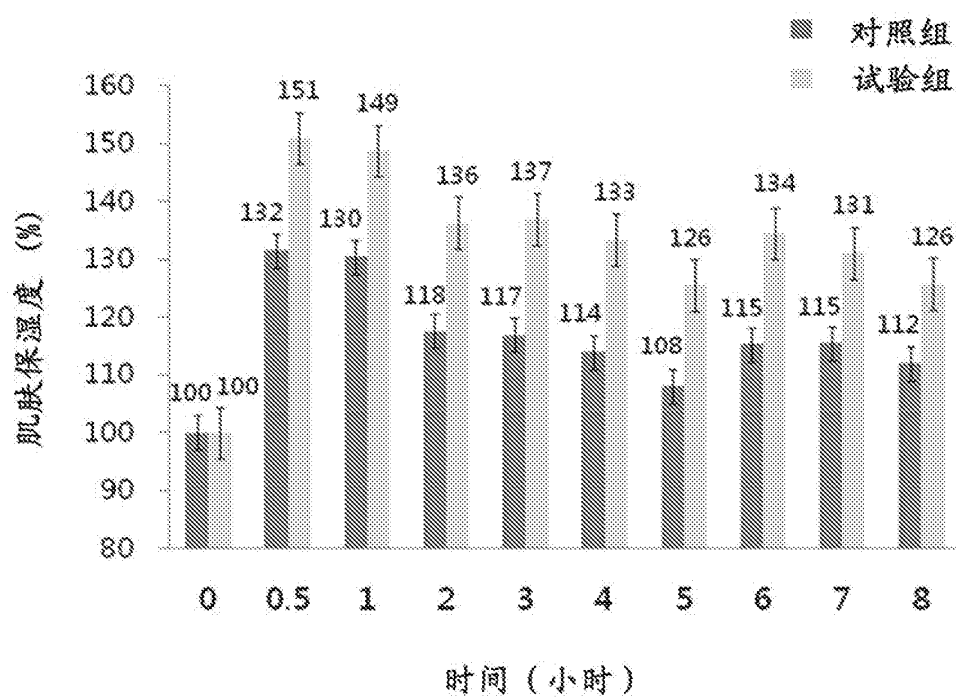


图 3

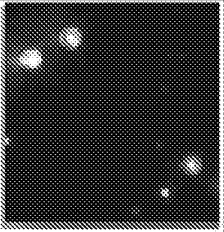
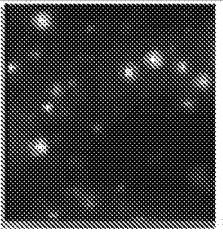
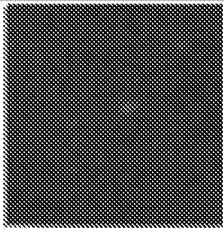
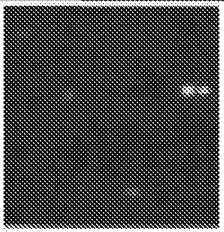
组分群	试验组		比较组	
	未加热	加热后	未加热	加热后
粒径 (nm)	450	600	118	282
浓度 (粒子数/ml)	1.04×10^9	1.27×10^{12}	1.66×10^{13}	5.9×10^{12}
结构				

图 4

(A) 磷脂酰胆碱

0.8-1.0

3.2-3.3

(B) 磷脂酰乙醇胺

乙醇胺

(C)

Chemical shift (ppm): 7.247, 7.247, 7.247, 7.109, 2.835, 2.765, 2.051, 2.008, 1.9835, 1.2642, 1.2407, 1.2407, 0.8950, 0.8824, 0.8721, 0.8248.

Integration values: 1.00, 0.49, 0.44, 0.95, 0.63, 1.00.

(D)

Chemical shifts (ppm): 7.2537, 7.2531, 7.2518, 7.2501, 7.2488, 7.2484, 7.2477, 7.2468, 7.2457, 7.2453, 7.2434, 7.2419, 7.2411, 7.2404, 7.2399, 7.2395, 7.2377, 7.2361, 7.2348, 7.2337, 7.2324, 7.2317, 7.2311, 7.2304, 7.2297, 7.2291, 7.2284, 7.2277, 7.2271, 7.2264, 7.2257, 7.2251, 7.2244, 7.2237, 7.2231, 7.2224, 7.2217, 7.2211, 7.2204, 7.2197, 7.2191, 7.2184, 7.2177, 7.2171, 7.2164, 7.2157, 7.2151, 7.2144, 7.2137, 7.2131, 7.2124, 7.2117, 7.2111, 7.2104, 7.2097, 7.2091, 7.2084, 7.2077, 7.2071, 7.2064, 7.2057, 7.2051, 7.2044, 7.2037, 7.2031, 7.2024, 7.2017, 7.2011, 7.2004, 7.1997, 7.1991, 7.1984, 7.1977, 7.1971, 7.1964, 7.1957, 7.1951, 7.1944, 7.1937, 7.1931, 7.1924, 7.1917, 7.1911, 7.1904, 7.1897, 7.1891, 7.1884, 7.1877, 7.1871, 7.1864, 7.1857, 7.1851, 7.1844, 7.1837, 7.1831, 7.1824, 7.1817, 7.1811, 7.1804, 7.1797, 7.1791, 7.1784, 7.1777, 7.1771, 7.1764, 7.1757, 7.1751, 7.1744, 7.1737, 7.1731, 7.1724, 7.1717, 7.1711, 7.1704, 7.1697, 7.1691, 7.1684, 7.1677, 7.1671, 7.1664, 7.1657, 7.1651, 7.1644, 7.1637, 7.1631, 7.1624, 7.1617, 7.1611, 7.1604, 7.1597, 7.1591, 7.1584, 7.1577, 7.1571, 7.1564, 7.1557, 7.1551, 7.1544, 7.1537, 7.1531, 7.1524, 7.1517, 7.1511, 7.1504, 7.1497, 7.1491, 7.1484, 7.1477, 7.1471, 7.1464, 7.1457, 7.1451, 7.1444, 7.1437, 7.1431, 7.1424, 7.1417, 7.1411, 7.1404, 7.1397, 7.1391, 7.1384, 7.1377, 7.1371, 7.1364, 7.1357, 7.1351, 7.1344, 7.1337, 7.1331, 7.1324, 7.1317, 7.1311, 7.1304, 7.1297, 7.1291, 7.1284, 7.1277, 7.1271, 7.1264, 7.1257, 7.1251, 7.1244, 7.1237, 7.1231, 7.1224, 7.1217, 7.1211, 7.1204, 7.1197, 7.1191, 7.1184, 7.1177, 7.1171, 7.1164, 7.1157, 7.1151, 7.1144, 7.1137, 7.1131, 7.1124, 7.1117, 7.1111, 7.1104, 7.1097, 7.1091, 7.1084, 7.1077, 7.1071, 7.1064, 7.1057, 7.1051, 7.1044, 7.1037, 7.1031, 7.1024, 7.1017, 7.1011, 7.1004, 7.0997, 7.0991, 7.0984, 7.0977, 7.0971, 7.0964, 7.0957, 7.0951, 7.0944, 7.0937, 7.0931, 7.0924, 7.0917, 7.0911, 7.0904, 7.0897, 7.0891, 7.0884, 7.0877, 7.0871, 7.0864, 7.0857, 7.0851, 7.0844, 7.0837, 7.0831, 7.0824, 7.0817, 7.0811, 7.0804, 7.0797, 7.0791, 7.0784, 7.0777, 7.0771, 7.0764, 7.0757, 7.0751, 7.0744, 7.0737, 7.0731, 7.0724, 7.0717, 7.0711, 7.0704, 7.0697, 7.0691, 7.0684, 7.0677, 7.0671, 7.0664, 7.0657, 7.0651, 7.0644, 7.0637, 7.0631, 7.0624, 7.0617, 7.0611, 7.0604, 7.0597, 7.0591, 7.0584, 7.0577, 7.0571, 7.0564, 7.0557, 7.0551, 7.0544, 7.0537, 7.0531, 7.0524, 7.0517, 7.0511, 7.0504, 7.0497, 7.0491, 7.0484, 7.0477, 7.0471, 7.0464, 7.0457, 7.0451, 7.0444, 7.0437, 7.0431, 7.0424, 7.0417, 7.0411, 7.0404, 7.0397, 7.0391, 7.0384, 7.0377, 7.0371, 7.0364, 7.0357, 7.0351, 7.0344, 7.0337, 7.0331, 7.0324, 7.0317, 7.0311, 7.0304, 7.0297, 7.0291, 7.0284, 7.0277, 7.0271, 7.0264, 7.0257, 7.0251, 7.0244, 7.0237, 7.0231, 7.0224, 7.0217, 7.0211, 7.0204, 7.0197, 7.0191, 7.0184, 7.0177, 7.0171, 7.0164, 7.0157, 7.0151, 7.0144, 7.0137, 7.0131, 7.0124, 7.0117, 7.0111, 7.0104, 7.0097, 7.0091, 7.0084, 7.0077, 7.0071, 7.0064, 7.0057, 7.0051, 7.0044, 7.0037, 7.0031, 7.0024, 7.0017, 7.0011, 7.0004, 6.9997, 6.9991, 6.9984, 6.9977, 6.9971, 6.9964, 6.9957, 6.9951, 6.9944, 6.9937, 6.9931, 6.9924, 6.9917, 6.9911, 6.9904, 6.9897, 6.9891, 6.9884, 6.9877, 6.9871, 6.9864, 6.9857, 6.9851, 6.9844, 6.9837, 6.9831, 6.9824, 6.9817, 6.9811, 6.9804, 6.9797, 6.9791, 6.9784, 6.9777, 6.9771, 6.9764, 6.9757, 6.9751, 6.9744, 6.9737, 6.9731, 6.9724, 6.9717, 6.9711, 6.9704, 6.9697, 6.9691, 6.9684, 6.9677, 6.9671, 6.9664, 6.9657, 6.9651, 6.9644, 6.9637, 6.9631, 6.9624, 6.9617, 6.9611, 6.9604, 6.9597, 6.9591, 6.9584, 6.9577, 6.9571, 6.9564, 6.9557, 6.9551, 6.9544, 6.9537, 6.9531, 6.9524, 6.9517, 6.9511, 6.9504, 6.9497, 6.9491, 6.9484, 6.9477, 6.9471, 6.9464, 6.9457, 6.9451, 6.9444, 6.9437, 6.9431, 6.9424, 6.9417, 6.9411, 6.9404, 6.9397, 6.9391, 6.9384, 6.9377, 6.9371, 6.9364, 6.9357, 6.9351, 6.9344, 6.9337, 6.9331, 6.9324, 6.9317, 6.9311, 6.9304, 6.9297, 6.9291, 6.9284, 6.9277, 6.9271, 6.9264, 6.9257, 6.9251, 6.9244, 6.9237, 6.9231, 6.9224, 6.9217, 6.9211, 6.9204, 6.

图 5

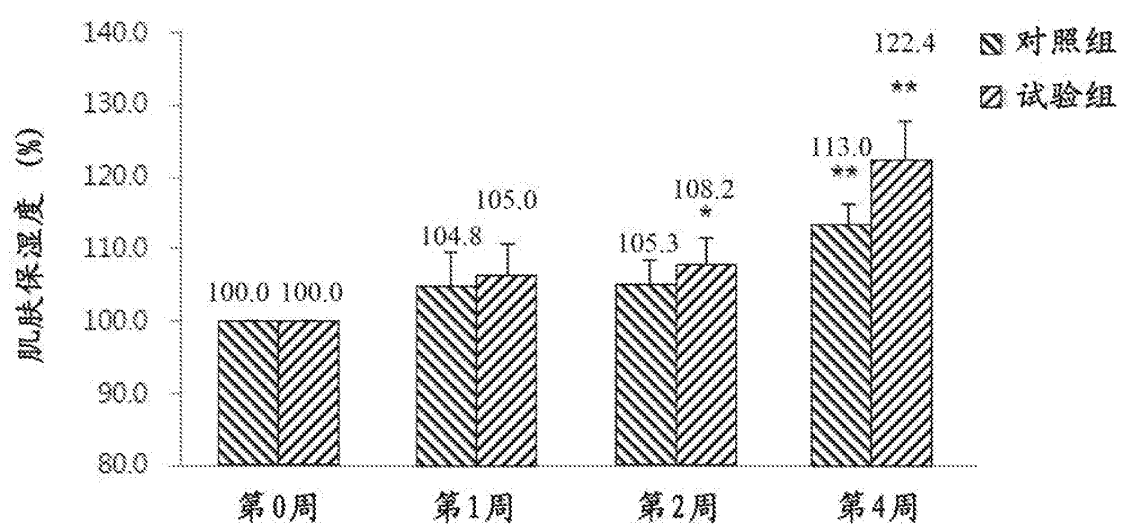


图 6

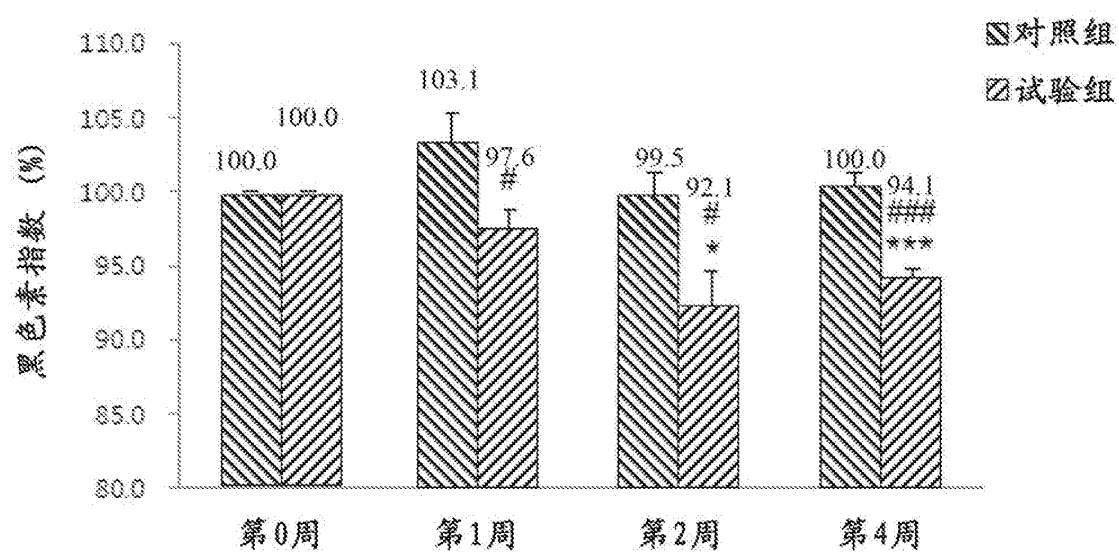


图 7

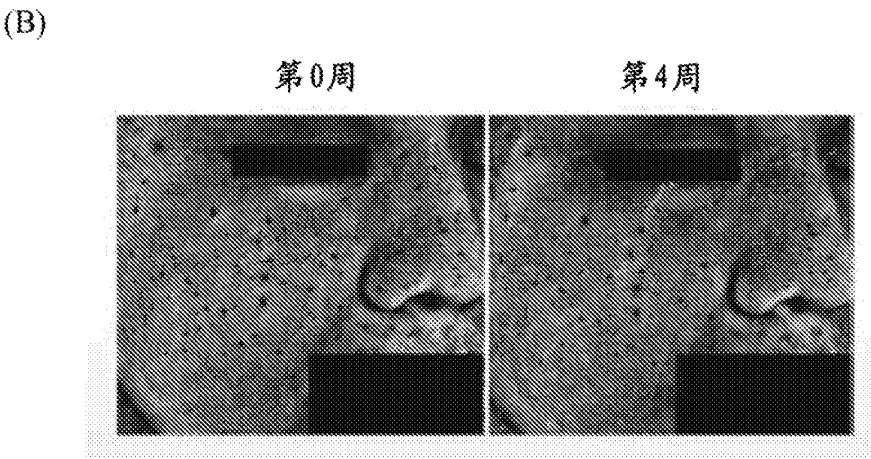
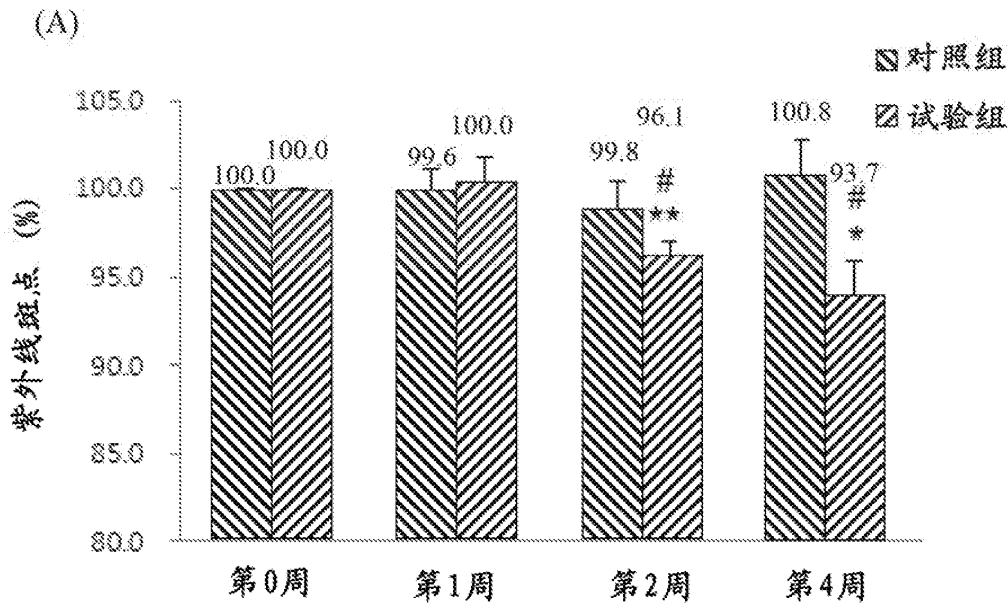


图 8

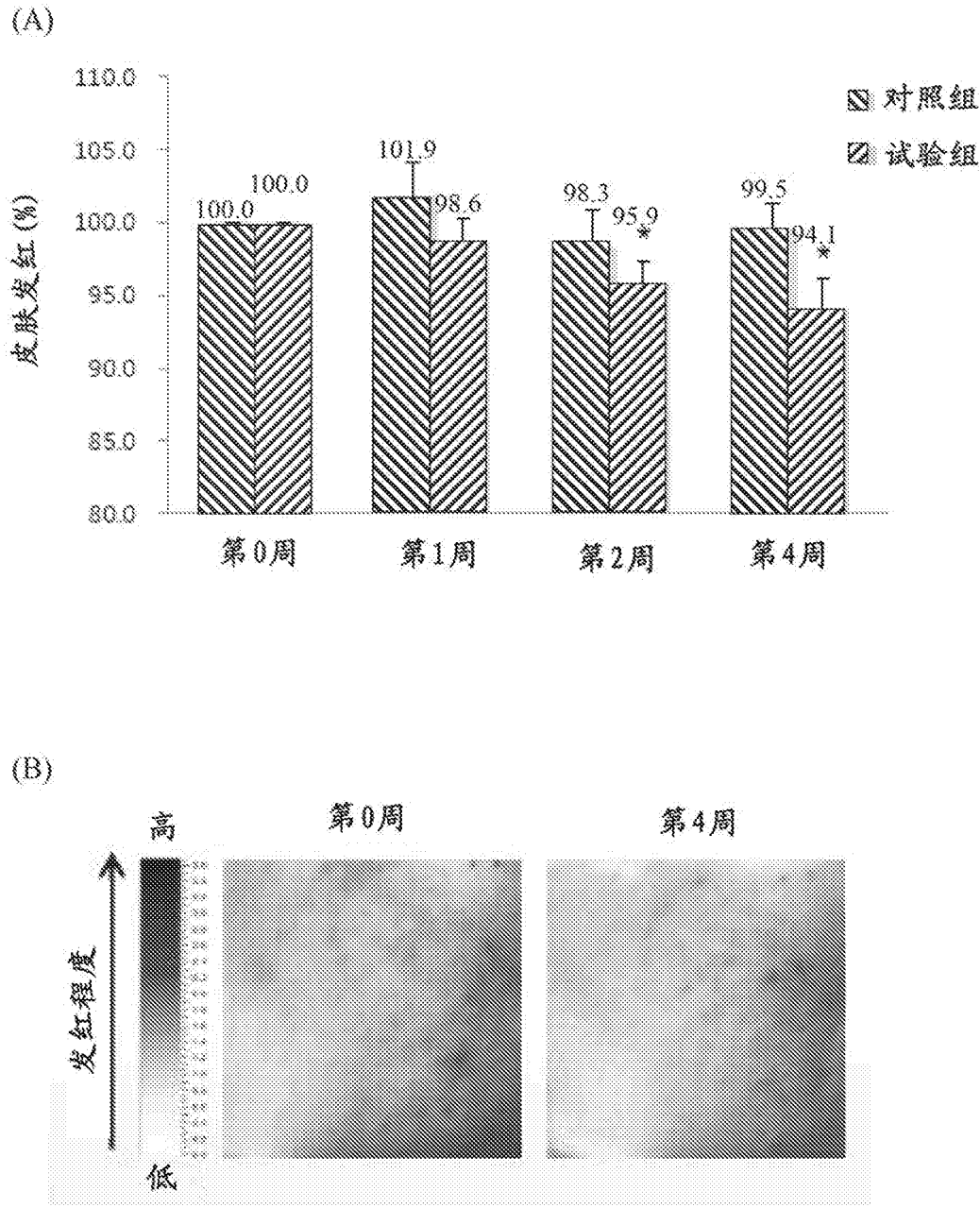


图 9

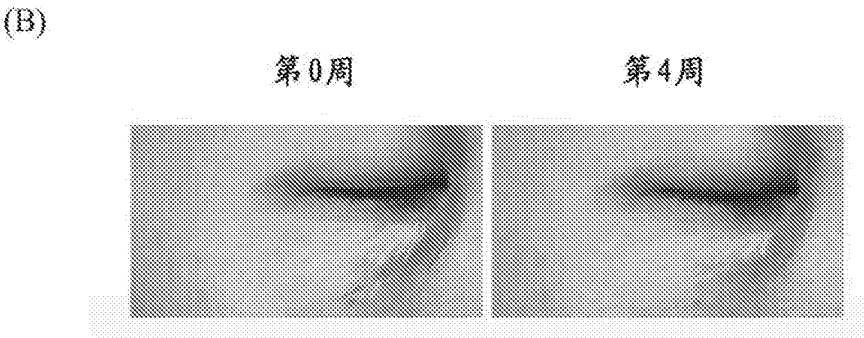
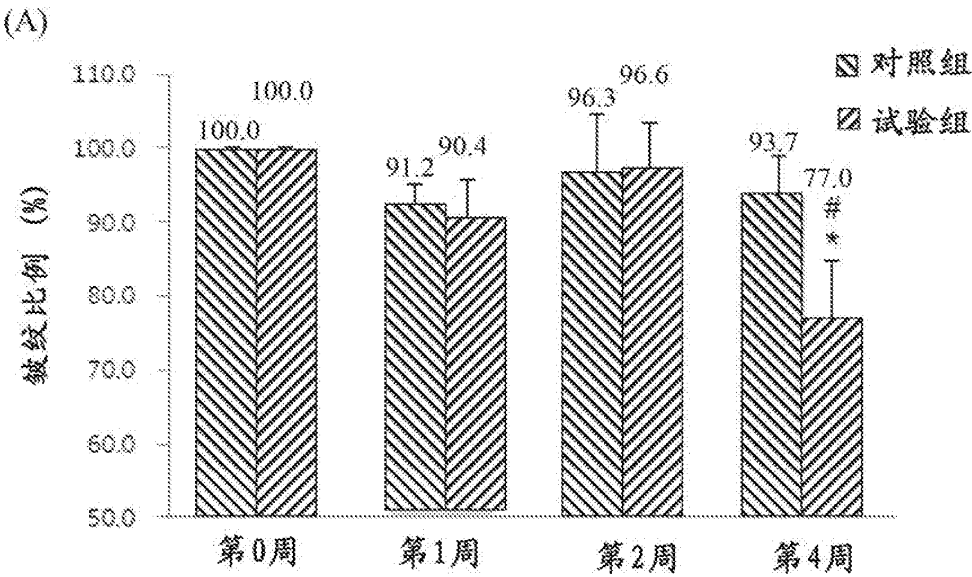


图 10