UNITED STATES SECURITIES AND EXCHANGE COMMISSION February 2, 2012

ORDER GRANTING CONFIDENTIAL TREATMENT UNDER THE SECURITIES EXCHANGE ACT OF 1934

CryoLife, Inc.

File No. 001-13165 - CF#27465

CryoLife, Inc. submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from the Exhibits to a Form 10-Q filed on October 27, 2011.

Based on representations by CryoLife, Inc. that this information qualifies as confidential commercial or financial information under the Freedom of Information Act, 5 U.S.C. 552(b)(4), the Division of Corporation Finance has determined not to publicly disclose it. Accordingly, excluded information from the following exhibits will not be released to the public for the time periods specified:

| Exhibit 2.1 | through December 31, 2015 |
|--------------|---------------------------|
| Exhibit 10.1 | through December 31, 2015 |

For the Commission, by the Division of Corporation Finance, pursuant to delegated authority:

Daniel Morris Special Counsel