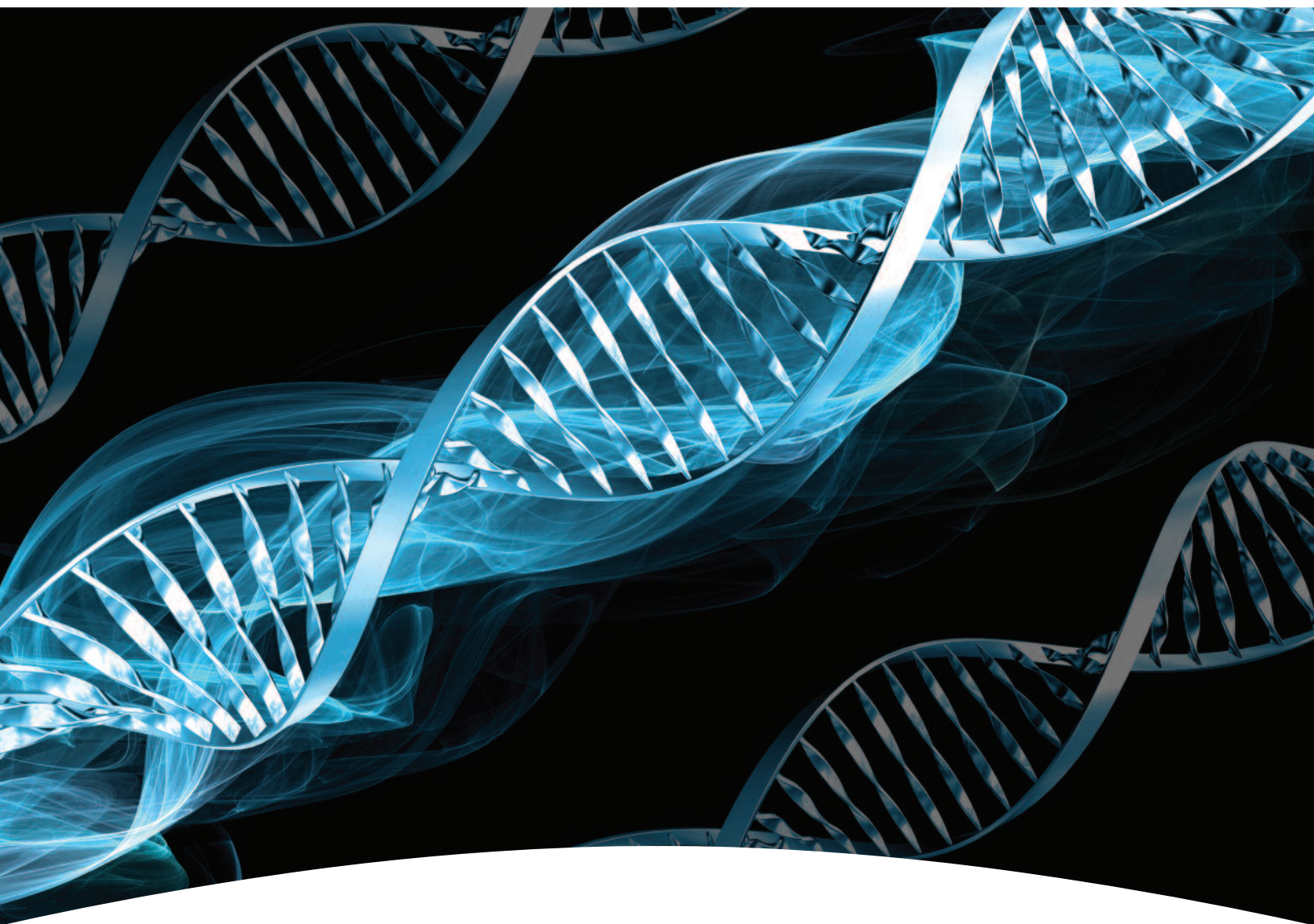


**Honeywell Burdick & Jackson®**



**rBMI Activator**  
**coupling reagent for RNA synthesis**

**Honeywell**

## rBMI Activator

Honeywell Burdick and Jackson® rBMI activator for RNA synthesis reduces the amount of costly amidites needed, without compromising overall synthesis yield.

Burdick and Jackson's rBMI activator is a patented\* formulation of 0.3M BMT combined with NMI. Since BMT has a tendency to precipitate out of solution at cold temperatures, Burdick and Jackson's rBMI includes NMI, which improves the solubility of the BMT, even as the product is shipped, stored and handled during winter months.

Burdick and Jackson's rBMI activator packaging options include:

Catalog Number	Package Size
BR731RN-1GL	2 x 1 Liter Glass Bottle (45mm neck size)
BR731RN-4	4 x 4 Liter Glass Bottle
BN731RN-20	20 Liter NOWPak II
BC731RN-56	56 Liter Stainless Steel Pressure Dispense System (SSPDS)
BC731RN-200	200 Liter SSPDS

For additional information and to request a sample visit:

[www.honeywell.com/rBMI](http://www.honeywell.com/rBMI)

Although Honeywell International Inc. believes that the information contained herein is accurate, they are presented without guarantee or responsibility of any kind and are not representations or warranties of Honeywell International Inc, either expressed or implied. Information provided does not relieve the user from the responsibility of carrying out its own tests and experiments and the user assumes all risks and liability (including, but not limited to, risks relating to results, patent infringements and health, safety and environment) for the results obtained by the use of this information and the suggestions herein.

\* U.S. Patent No. 7,339,052

**Honeywell International**  
101 Columbia Road  
Morristown, NJ 07962

For Honeywell Technical Service call:  
1-800-368-0050

[www.honeywell.com/burdickandjackson](http://www.honeywell.com/burdickandjackson)



Burdick & Jackson is a registered trademark of Honeywell International Inc.

NOWPak is a registered trademark of ATMI Inc.

ÄKTA, oligopilot plus are trademarks of GE Healthcare companies.

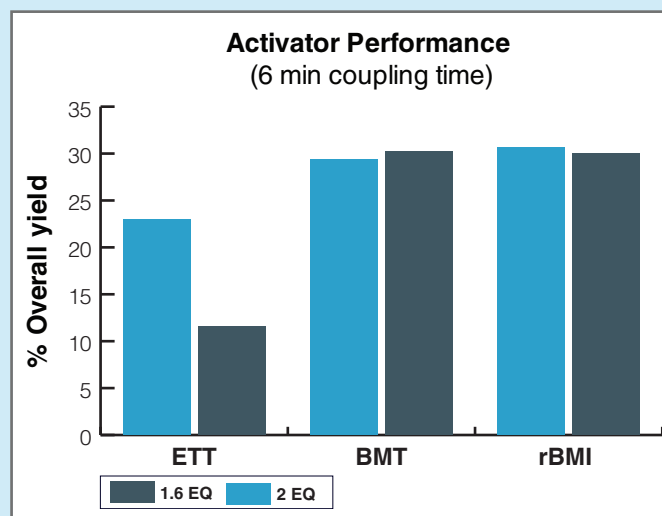
January 2011

© 2011 Honeywell International Inc.

## Activator Performance

Data generated by Honeywell Burdick and Jackson's oligosynthesis applications lab indicates that rBMI:

- Allows for a reduced equivalence of amidites without sacrificing yield compared to 0.6M ETT with a 6 minute coupling time. The performance of the ETT activator indicates a correlation between the excess amidite used in oligosynthesis and overall RNA yield.
- Is equivalent to using a BMT activator in terms of RNA overall yield. The addition of NMI does not negatively affect the coupling efficiency.



These conclusions are based upon the following parameters:

- **RNA sequence:** 5' cga ucu ucu gga aau cca aT 3'
- **Support:** GE Healthcare Primer Support T80s (polystyrene beads, 80 micromole/g)
- **Synthesis scale:** 100 micromole
- **Amidites:** 2'-TBDMS protected, A (n-bz), C (n-acetyl), G (n-acetyl), U
- **Synthesizer:** ÄKTA™ oligopilot™ plus 100
- **Overall Yield:** (% UV yield) x (% full-length RNA using HPLC), where UV Yield is the ratio of actual amount of RNA made over the theoretical RNA amount that could be made with the primer support, based on UV absorption at 260 nm

**Honeywell**