Biotrue; the latest innovation from Bausch + Lomb, is a bio-inspired multi-purpose contact lens solution (MPS) that was designed and developed using the eye as inspiration. Its unique formulation incorporates several of the natural characteristics of the eye, which are discussed below, while also providing an exceptional disinfection profile.

**Biotrue is an innovative multi-purpose solution that takes inspiration from the eye itself.**

Another bio-inspired quality that Biotrue offers patients is its ability to manage tear film proteins. Lysozyme and lactoferrin are some of the most common tear film proteins and they are known to have antimicrobial properties when in their native state. In the lens case, Biotrue surrounds and protects proteins to prevent denaturation and maintain their antimicrobial activity. In fact, Biotrue maintains >13 times more active lysozyme than other solutions. Biotrue also provides excellent disinfection against Acanthamoeba polyphaga trophozoites and cysts.

**Clinical Findings**

Biotrue was extensively tested before its recent market launch — a total of 1560 subjects used Biotrue daily (over 72,000 exposures to Biotrue; 7212 eye visits) between early 2008 and early 2010. Eighty-three clinical investigators at study sites throughout the U.S. conducted slit lamp examinations that included grading of bulbar and limbal injection, corneal staining and edema, and tarsal conjunctival abnormalities. The total occurrence of any of these findings of greater than Grade 2 at
Biotrue received high ratings from patients for comfort and from clinicians for clinical performance and eye health.

Clinical Performance
In one clinical trial of 291 subjects enrolled across 15 investigative sites, practitioners gave Biotrue high ratings for the performance it delivered to patients with regard to vision, health, and comfort. Patients were also very satisfied with the performance of Biotrue, particularly in terms of comfort. Reflected in the patient ratings data shown are the findings that the overall opinion of Biotrue was excellent, very good, or good for 72 of 80 (90%) OPTI-FREE RepleniSH (Alcon, Incorporated) users and for 18 of 20 (90%) Clear Care (CIBA Vision Corporation) users.

Conclusions
Biotrue is an innovative MPS that takes inspiration from the eye itself: its pH matches that of healthy tears, it hydrates utilizing HA, and it maintains the natural state of certain beneficial proteins found in the tear film. In addition to having bio-inspired attributes, Biotrue provides excellent disinfection and offers patients the convenience of an MPS. In clinical studies, Biotrue received high ratings from patients for comfort and from clinicians for clinical performance and eye health. The uniqueness of its formulation, combined with its efficacy, may make patients, and some practitioners, reconsider their current lens care systems.

Table 1
Practitioner and Patient Ratings from Clinical Trial

<table>
<thead>
<tr>
<th>Practitioners’ Percent of Agreement on Patients’ Experiences with Various Attributes of Biotrue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfied with overall visual quality: 99%</td>
</tr>
<tr>
<td>Eyes appear healthy: 99%</td>
</tr>
<tr>
<td>Clinical performance met expectations: 95%</td>
</tr>
<tr>
<td>Satisfied with comfort at the end of the day: 90%</td>
</tr>
<tr>
<td>Provided long-lasting clean: 90%</td>
</tr>
<tr>
<td>Provided continuous comfort: 87%</td>
</tr>
<tr>
<td>Restored a new lens feeling for the entire day: 84%</td>
</tr>
<tr>
<td>Felt like natural tears: 82%</td>
</tr>
<tr>
<td>Overall opinion, good to excellent: 88%</td>
</tr>
</tbody>
</table>

Table 1. Bausch + Lomb. Data on file. Table 1. Bausch & Lomb Incorporated. All other product/brand names are trademarks of their respective owners. © 2010 Bausch & Lomb Incorporated.

13 Bringing New Inspiration to Contact Lens Care. Contact Lens Spectrum. Supplement. September 2010 (suppl); Table 1.
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