Steri-Dropper™

Accurate dispensing….one drop at a time

Steridropper eye dropper bottles offer an excellent and convenient alternative to traditional glass dropper bottles. The bottles are non-toxic and non-pyrogenic and avoid the need for bulk sterilisation by offering two stearate free resin dropper bottles in a clean peel pouch.

The bottles are non-toxic and non-pyrogenic and are supplied in 3ml, 7ml, 10ml and 15ml sizes, 2 bottles per blister pack with 2 snap in dropper tips and 2 polypropylene screw caps.

- Low Density Polyethylene Vials
- No in house sterilising necessary
- Labelled blister packs – complete identification
- Recyclable blister packaging
- Prepare large or small controlled production – less waste
- 50 packs per case - 2 bottles per pack

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
<th>Size</th>
<th>Sterile</th>
<th>Sales Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV1630</td>
<td>Steri-Dropper, tips, screw cap</td>
<td>3ml</td>
<td>Sterile</td>
<td>2 x 50 pcs/pack</td>
</tr>
<tr>
<td>IV1632</td>
<td>Steri-Dropper, tips, screw cap</td>
<td>7ml</td>
<td>Sterile</td>
<td>2 x 50 pcs/pack</td>
</tr>
<tr>
<td>IV1633</td>
<td>Steri-Dropper, tips, screw cap</td>
<td>15ml</td>
<td>Sterile</td>
<td>2 x 50 pcs/pack</td>
</tr>
</tbody>
</table>

For further information or to order contact our expert sales team on 0800 0328 428 or visit our website www.helapet.co.uk
SUMMARY
The compatibility of the 7 ml size of Steri-Dropper, a commercially available low-density polyethylene sterile eye-drop container, was studied for use with solutions containing the antimicrobial preservatives benzalkonium chloride and phenylmercuric acetate. For benzalkonium chloride, there was no difference between the Steri-Dropper and the glass eye-drop bottles throughout the study period of 84 days. However, there was less phenylmercuric acetate present in the Steri-Dropper compared to the glass containers by the end of the study. The suitability of the Steri-Dropper bottle was also studied for use with potassium ascorbate eye drops; these degraded more in Steri-Dropper compared to glass containers and a yellow discoloration of the product was also seen in these containers. The Steri-Dropper bottle is therefore potentially compatible with dispensed formulations containing benzalkonium chloride and, for short periods only, with phenylmercuric acetate. The container would only be suitable for use with oxygen-sensitive drugs for short periods. Further validation of the suitability of the Steri-Dropper bottle would be required for use with any specific formulation.

CONCLUSION
Steri-Dropper is potentially compatible with formulations containing benzalkonium chloride for periods up to 12 weeks under refrigerated storage. For formulations containing phenylmercuric acetate, the 7 ml size of Steri-Dropper is potentially compatible for at least 1 month. This container is less suitable than glass for the storage of potassium ascorbate eye drops; however, it may be possible to store oxygen-sensitive formulations for a limited period only.

The container is also available in 3 ml and 15 ml sizes. These were not evaluated, but it is possible that sorption of phenylmercuric acetate and degradation of oxygen-sensitive drugs would be more pronounced with the 3 ml size, due to a higher surface to volume ratio.

1 Extracts from a paper by A.R. Barnes of Pharmaceutical Science Institute, Aston University, Birmingham, UK, and Regional Quality Control Laboratory, Department of Pharmacy and Pharmaceutical Sciences, City Hospital, Birmingham, UK regarding "Compatibility of low-density polyethylene eye-drop container with anti-microbial preservatives and potassium ascorbate" reproduced on reverse.