Universal IVF Medium

- High glucose medium for fertilization
- Provides high-energy conditions for gamete fusion
- Consistent, high fertilization rates for more than a decade
Universal IVF Medium

High glucose content to support fertilization

Universal IVF Medium has been the medium of choice around the world for more than 20 years. It is one of the most thoroughly tried and tested media available and its performance and consistency is renowned.

High glucose is important to the fertilization process:
- Glucose is used by spermatozoa as a main energy source
- Glucose improves sperm capacitation and motility
- Glucose participates in sperm-oocyte fusion

Clinical documentation
While the entire fertilization process is not fully understood, the effect of glucose is clear.

Barak et al 1998 compared fertilization in four media, ranging from no glucose to high glucose content Universal IVF Medium, having the highest glucose content, yielded significantly better fertilization than the remaining three media.

In a comparison of fertilization in glucose-free and glucose-rich media by Mahadevan et al, significantly better results were achieved in glucose-rich medium.

Fertilization rates
Through its balanced composition and stability, Universal IVF Medium has yielded high fertilization rates for more than a decade:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Fertilization Rate (%)</th>
<th>Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Hammadeh et al 1992</td>
<td>78</td>
<td>50</td>
</tr>
<tr>
<td>2. Barak et al 1998</td>
<td>78.2</td>
<td>182</td>
</tr>
<tr>
<td>3. Karamalegos 1999</td>
<td>70.7</td>
<td>230</td>
</tr>
<tr>
<td>4. Vlaisavljevic 2001</td>
<td>77.7</td>
<td>187</td>
</tr>
<tr>
<td>5. Erb 2004</td>
<td>69</td>
<td>950</td>
</tr>
<tr>
<td>6. Frydman 2004</td>
<td>71</td>
<td>1546</td>
</tr>
<tr>
<td>7. Kattera &amp; Chen 2004</td>
<td>74.5</td>
<td>1725</td>
</tr>
</tbody>
</table>

Quality control testing
- Sterility tested
- pH tested
- Osmolality tested
- Ph. Eur. endotoxin tested ≤ 0.1 EU/ml
- Mouse Embryo Assay (MEA)

Note: The results from each batch are stated on a Certificate of Analysis, which is available on www.origio.com.

Catalog No.
1030 1010 without Phenol Red, 10x10 ml
1030 0060 without Phenol Red, 60 ml
1030 5060 without Phenol Red, 5x60 ml
1031 1010 with Phenol Red, 10x10 ml
1031 0060 with Phenol Red, 60 ml
1031 5060 with Phenol Red, 5x60 ml

Contact
Please visit www.origio.com to find your local ORIGIO MediCult Media distributor or contact ORIGIO directly at the address listed below.

Universal IVF Medium contains ~5 mM glucose.

Ref: Williams & Ford 2001 J Androl 22(4)
Mahadevan et al 1997 Hum Rep 12(1)
Hoshi et al 1991 Tohoku J. Exp Med 165

Mahadevan et al 1997 Hum Rep 12(1)
Hoshi et al 1991 Tohoku J. Exp Med 165