Chick Embryo Extract

Chick Embryo Extract (CEE) is used as a supplement in some growth media formulations.

Benefits
- Save time and money by purchasing a QA product instead of producing the product in house.
- Each batch of CEE is subjected to sterility and chemical analysis.
- Each batch of CEE is also tested by assaying for growth and the differentiation of mouse muscle cells - cells were derived from H-2K^b-tsA58 transgenic mouse 7, 13.
- Two different product formulations are available – frozen and lyophilised.
- Material available with and without the addition of antibiotic.
- Free samples available for evaluation to mitigate batch variation.

Preparation
CEE is produced from chick embryos (Bovans Goldline). Eggs are collected from registered flocks found to be free from clinical signs of notifiable disease. The material is processed and filtered to 0.2 micron. This product is typically prepared with the addition of antibiotics. Material without antibiotic may be supplied on request.

Key Applications
To cultivate neural crest stem cells (NCSC) in vitro, a special neural crest stem cell medium (NCSCM) is required. The most complex part of the NCSCM is the preparation of CEE which provides a source of essential growth factors for growing rat neural crest stem cells and other types of neural explants.

CEE has also been used for the successful expansion of many specific stem cells and has demonstrated the ability to facilitate DNA demethylation.

Product Codes & Availability

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Pack Size</th>
<th>Antibiotic</th>
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<tbody>
<tr>
<td>CE-650-J - Frozen</td>
<td>20mL</td>
<td>Penicillin, Streptomycin &amp; Amphotericin</td>
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<tr>
<td>CE-650-F - Frozen</td>
<td>500mL</td>
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<tr>
<td>CE-650-DL - Lyophilised</td>
<td>10mL</td>
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<tr>
<td>CE-650-JL - Lyophilised</td>
<td>20mL</td>
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Recommended storage is –20°C or below. Lyophilised product may be stored at +4°C. Recommended to reconstitute lyophilised product to 10ml using sterile water, agitate to mix. It is advised that lyophilised product is filtered through 0.2 micron filter after reconstitution to maintain sterility.
Literature


