

**TECHNICAL DATA SHEET**

**DSC – DEFIBRINATED SHEEP BLOOD**

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**1. PRODUCT / SUPPLIER IDENTIFICATION:**

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**PRODUCT NAME:** Defibrinated Sheep Blood  
**CODE No.:** DSC  
**SUPPLIER:** E&O Laboratories Limited  
**ADDRESS:** Burnhouse  
Bonnybridge  
Scotland  
United Kingdom.  
**POST CODE:** FK4 2HH  
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**2. PRESENTATION:**

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**CONTAINER:** As requested  
**VOLUME:** As requested

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**3. STORAGE AND SHELF LIFE:**

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**STORAGE:** 2 – 8°C  
**SHELF LIFE:** 56 days

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**4. COMPOSITION / INFORMATION ON INGREDIENTS:**

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Aseptically collected sheep blood with a packed cell volume (PCV) of 30% to 40%

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**5. PRINCIPLE & INTENDED USE:**

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Sheep blood is collected aseptically by ovine venepuncture and immediately mechanically defibrinated in such a way as to maximise fibrinogen removal and minimise erythrocyte rupture. Since it is not possible to sterilise blood by heat treatment, filtration or chemical means, strict sterility testing is conducted to ensure that the blood is not contaminated.

Defibrinated sheep blood is generally added to an agar base at 5% or 7% v/v to improve growth of fastidious organisms and/or to confirm the presence and type of haemolysis. Haemolytic reactions seen with sheep blood agars may not be identical to those seen with equivalent horse blood agars so careful attention to the specific test methodology and to the test results is advisable.

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## 6. USAGE PRECAUTIONS:

All E&O products are for *in vitro* use only. E&O products are intended only for use by qualified professionals who will safely handle and dispose of products they receive. PPE should be worn in accordance with laboratory protocol.

## 7. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Liquid  
**COLOUR:** Cherry red  
**pH:** N/A

## 8. QUALITY CONTROL METHODS AND TEST ORGANISMS

Samples from the batch of freshly collected blood are tested immediately and after 7 days storage at  $20 \pm 5^\circ\text{C}$  during which the blood is inspected daily for colour variation and clotting. At 0 and 7 days, a 5% blood agar is prepared using the DSC and an appropriate agar base. Plates are tested for sterility and microbial productivity.

Organisms	Ref. No.	Result
<i>Streptococcus pneumoniae</i>	NCTC 12977	Grey/green colonies with $\alpha$ -haemolysis
<i>Streptococcus pyogenes</i>	NCTC 12696	White colonies with $\beta$ -haemolysis
<i>Staphylococcus aureus</i>	NCTC 12981	White colonies with double zone of weak $\beta$ -haemolysis
<i>Escherichia coli</i>	NCTC 12241	Grey colonies
CAMP Test	According to ISO 11290	Enhanced haemolysis <i>L. monocytogenes</i> and <i>S. aureus</i> Greatly enhanced haemolysis <i>L. ivanovii</i> and <i>R. equi</i>

Recommended incubation:

Sterility test: Incubate aerobically at  $37 \pm 1^\circ\text{C}$  for 72 hours and at  $20 \pm 5^\circ\text{C}$  for 120 hours.

Microbial productivity test: Incubate *S. pneumoniae* in a 5% to 10%  $\text{CO}_2$  atmosphere at  $37 \pm 1^\circ\text{C}$  for 18-24 hours.

Incubate the other organisms aerobically at  $37 \pm 1^\circ\text{C}$  for 18-24 hours.

CAMP test: Incubate aerobically at  $37 \pm 1^\circ\text{C}$  for 18-24 hours.

## 9. OTHER INFORMATION:

N/A

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