

# FBS Blades

## INSTRUCTIONS FOR USE



**Scope:** These instructions apply to Rocket Medical Fetal Blood Sampling (FBS) blades and FBS blade holders: R57010 (6% luer taper plug-fit blade), R57011 (screw-fit blade) and R57011-HLDR (blade holder with screw-fit blade).

**Indications:** A mounted blade for single patient use, to obtain fetal blood gas/pH/lactate samples in cases of suspected fetal distress during labour. If additional sampling is necessary or if labour is protracted, a further blade may be required. This device should only be used by or under the supervision of trained personnel and in conjunction with current clinical practice guidelines.

**Contraindications:** This procedure is contraindicated with placenta previa, when identification of the presenting part is uncertain, in the presence of genital infections (e.g. herpes, Group B streptococcus, gonorrhoea, HIV/AIDS and Hepatitis B), where the mother is a confirmed carrier of haemophilia and the fetus is either affected or of unknown status, prematurity (less than 34+0 weeks) or acute fetal compromise (for example, fetal bradycardia of >3 minutes).

### **Procedure:**

1. Using aseptic technique, remove the kit from outer bag and unfold the outer drape to form a sterile field.
2. Following local hospital procedure, prep the perineum and vagina and complete a vaginal examination to establish the cervical dilatation and station of the fetal head.
3. Unpack one FBS blade and locate the screw/plug (depending on product code) securely into the blade holder. R57010 is compatible with 6% luer taper plug-fit blade holders. R57011 is compatible with the screw fitting blade holder included in R57011-HLDR.
4. Rocket Medical recommends the use of a Rocket Medical amnioscope fitted with Amnilume™ Single Use Light Source (R57016-LUME-NS or R57016-PLUS-NS). Remove the obturator from the amnioscope. Locate the Amnilume™ in the slot in the amnioscope and push gently to engage. The light will activate when the light source is correctly fitted. Between samplings, remove the Amnilume™ light source from the endoscope by pushing off with the thumb.
5. Insert amnioscope complete with obturator into the vagina against the fetal presentation ensuring that the cervix is not trapped.
6. Remove obturator. Position the bevelled end by rotating amnioscope to obtain the best possible seal against the fetal presentation. Rotate to finally position the light source module in the upper quadrant. Maintain close contact between amnioscope and scalp to prevent leakage of liquor.
7. Clean the puncture area with gauze swabs and forceps.
8. With a clean swab stick, apply a *thin* layer of petroleum jelly to the puncture area to promote blood aggregation. **Remove excess petroleum jelly with a new dry swab stick before skin puncture.**
9. Perform the skin puncture through the amnioscope using the loaded FBS blade holder. Either ❶ make a vertical stab, rotate the blade 90° and make a second stab to form a cross or ❷ make a vertical stab, then angle the blade upwards and extend using the front edge of the blade to produce a single incision 4mm long. Always wait for a good sized (3-4mm) bead to form on the surface before collection. Never slash at the scalp and avoid multiple small stabs.

**CAUTION: Avoid fetal face, fontanelles and genitalia.**

Rocket Medical FBS blades have a maximum depth of penetration of 2.1mm

10. Insert a high-heparin concentration capillary tube into a capillary tube holder.

**IMPORTANT: Carefully follow the analyser manufacturer's instructions to determine the capillary tube required.**

11. Rapidly collect blood sample, filling the tube completely, **without air bubbles**. Collection needs to be expedited to avoid blood clotting. **CAUTION: Do NOT use the sample if the blood clots.**
12. Remove tube from holder and cap both ends. Take to the analyser **immediately**. Follow the analyser manufacturer's instructions as regards sample mixing. **CAUTION: Avoid distributing air through the sample; samples containing air bubbles may be rejected by the analyser.**
13. Always ensure the **clean**, non-paraffin exposed end is presented to the analyser. Note: some analysers require a 'clot catcher'. Please refer to the manufacturer's instructions for guidance on when a clot catcher is needed.
14. Always ensure that the **correct** measuring mode is selected *before* performing analysis.

**CAUTION: Failure to use correct blood volume, select correct analysis mode or the use of clotted or contaminated samples may lead to errors in results or rejection of the whole sample. Carefully follow the analyser manufacturer's instructions.**

### **Post sampling:**

15. Haemostasis is accomplished by applying pressure to fetal puncture site with a swab for one full contraction.
16. If test results so indicate, repeat procedure.

**Disposal:** This device should be handled and disposed of in accordance with local hospital policy and with regard to all applicable regulations, including but without limitation to, those pertaining to human health & safety and care of the environment.



This device is not  
Manufactured with  
natural rubber latex



**Rx** ONLY



**UK  
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**DO NOT RESTERILISE.** Do not reuse on another person, reprocess or re-sterilise as doing so may compromise the structural integrity of the device, leading to device failure; potentially the cause of serious harm to patients and users. Reuse, reprocessing or re-sterilisation may also result in serious harm to patients and users from cross-contamination and infection with transmissible diseases. **Unless opened or damaged, contents of package are sterile.** Store at room temperature. Avoid prolonged exposure to elevated temperatures.