FBS Exosome Depletion Kits

Easy exosome depletion for clear results

- Efficient depletion of cow's exosomes from Fetal Bovine Serum
- Deplete exosome-sized vesicles from versatile FBS volumes of up to 240 mL - 280 mL
- No protease treatment required
- No time-consuming ultracentrifugation
- No filtration or special syringes are required
- No precipitation reagents required
- No overnight incubation required
- Depleted FBS has no detectable cow's miRNA
- The depleted FBS provides the same cellular growth rates as the standard FBS

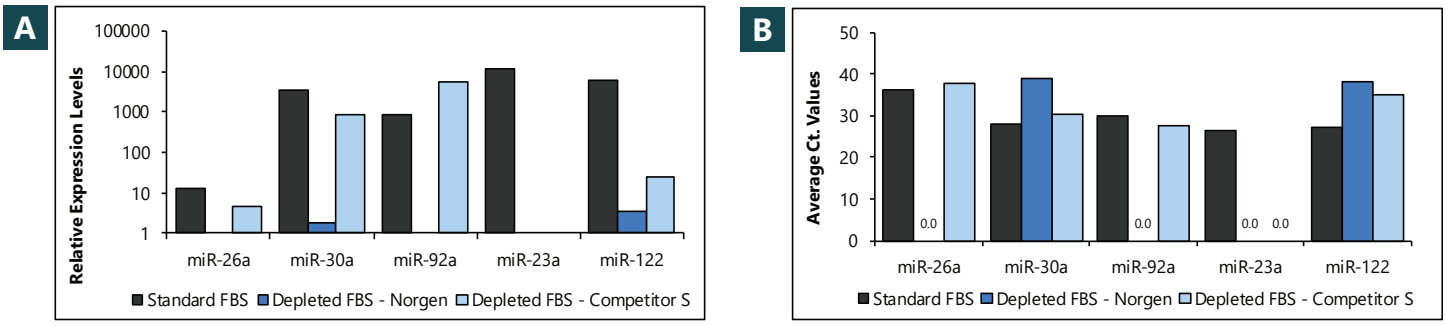

Figure 1. Exosome-depleted FBS with Norgen's FBS Exosome Depletion Kits (Column Format) has undetectable Bovine miRNA levels. Norgen's FBS Exosome Depletion Kit I (Column Format) (Cat# 61200) was used to deplete bovine miRNA from 5mL FBS. Total RNA/miRNA including exosomal RNA was purifiedfrom the depleted FBS, non-depleted FBS and a commercially available ready to go depleted FBSusing Norgens Plasma/Serum Cell-Free Circulating DNA Purification Maxi Kit (Cat# 55800). Five different bovine microRNAs were assessed by RT-qPCR (miR-26a, miR-30a, miR-92a, miR-23a and miR-122). Three out of the five tested miRNA (miR-26a, miR-92a and miR-23a) didnt show any amplification in the FBS depleted using Norgen's FBS Exosome Depletion Kit I (Column Format) whereas the other two miRNAs (miR-30a and miR-122) showedvery late Ct. values which appeared to be a primer dimer according to the melt curve.

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Standard FBS

Depleted-FBS (Norgen)

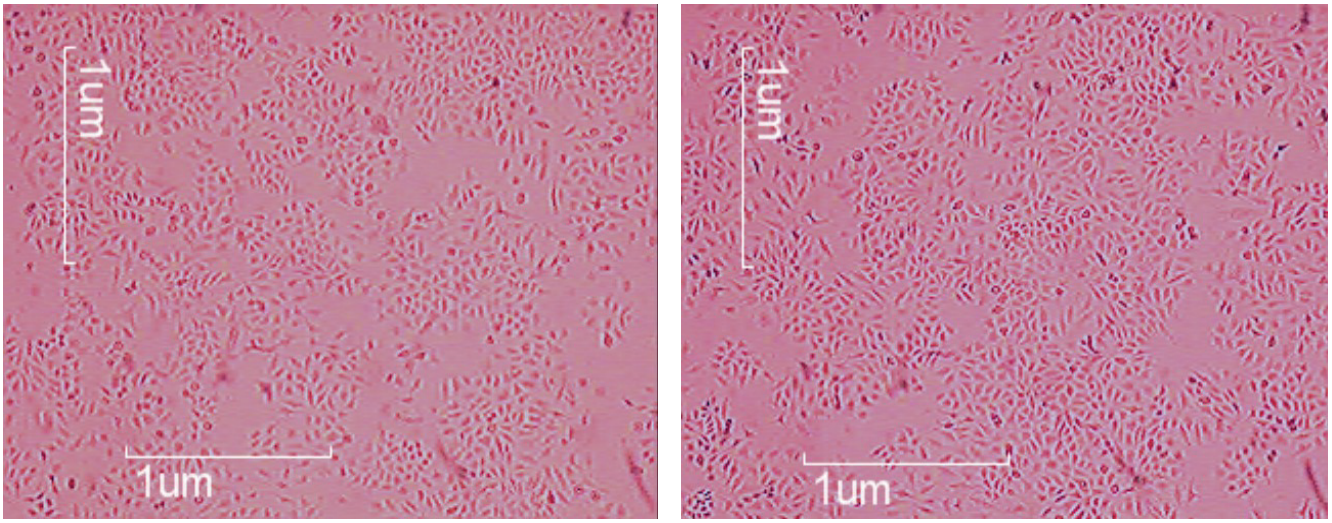

Figure 2. Growth rates of HeLa cells in media containing Exosome-depleted FBS. Growth rates of HeLa cells in media containing Exosome-depleted FBS using Norgen's FBS Exosome Depletion Kits (Column Format) was compared to that in media containing standard FBS. Simply, HeLa cells were seeded in DMEM with either 10% Exosome-depleted FBS using Norgen's Kits or 10% standard FBS and then cultured under standard conditions at 37°C with 5% CO2 for 3 days. The cells were imaged using Moticam 480 to observe cellular morphology and growth rate. Similar growth and identical cellular morphology were detected for both the Exosome-depleted FBS using Norgen's FBS Exosome Depletion Kits and the standard FBS

About this kit

Norgen's FBS Exosome Depletion Kits (Slurry Format) constitute an all-in-one system for the depletion of cow's exosomes from FBS prior to using it as a growth supplement in your culture medium. The FBS recovered from the depletion process is exosome-depleted and does not contain any quantifiable bovine miRNAs. Moreover, the exosome-depleted FBS will support the growth of your cells of interest similar to the non-depleted FBS. Norgen's kits allows for the depletion of different FBS volumes with a maximum volume ranging from 140 mL to 280 mL. The depletion is based on Norgen's proprietary resin. These kits provide a clear advantage over other available kits in that they do not require ultracentrifugation, any special instrumentation, precipitation reagents or any protease treatments. More importantly, the depletion process is an inexpensive method for depletion of your own FBS, as compared to the current ready-to-use exosome-depleted media available on the market.

v2.0

Ordering information

Description	Size	Cat. Number
FBS Exosome Depletion Kit I (Slurry Format)	6 preps	61100
FBS Exosome Depletion Kit II (Slurry Format)	12 preps	61400
FBS Exosome Depletion Kit I (Column Format)	6 preps	61200
FBS Exosome Depletion Kit II (Column Format)	12 preps	61300

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