Extraction of RNA from Milk using EZNA HP Total RNA kit

As you said the best kit to use is our EZNA HP Total RNA kit, but this protocol will be supplemented with TBP Buffer from our Food Kit and Disruptor tubes out of the Universal Pathogen kit.

The protocol would be as follows:

1. Add up to 0.5 mL milk sample to a 2 mL microcentrifuge tube containing 0.1 mm glass beads (Disruptor tube/ Universal Pathogen kit) and then add 1 mL TBP Buffer (Food DNA kit).

2. Invert 10 times to mix.

3. Centrifuge at 3,000 x *g* for 10 minutes at room temperature.

4. Remove and discard the aqueous and fatty layer

5. Add 700 µL GTC

6. Vortex at maximum speed for 3-5 minutes to lyse and homogenize the samples. For best results, a mixer mill, such as Spex CertiPrep Geno/Grinder® 2010 or Qiagen Tissuelyser, should be used.

7. Centrifuge at 12,000 x *g* for 5 minutes.

8. Transfer the supernatant to a RNA Homogenizer Column (HP Total RNA kit) pre-inserted into a 2 mL collection tube

9. Centrifuge at 13,000 x *g* for 1 minute

10. Save the filtrate and discard the RNA Homogenizer Mini Column.

11. Proceed with the HP Total RNA Kit-Animal Cell Protocol from Step 8(Page 13 of March 2017 Revision)