

Product Specification Sheet

Ram Seminal Vesicle derived
Microsomes
Product Number: V02
Aliquot: 5 mg
Lot Number v02.060405A
Storage: -70°C

- DESCRIPTION:** Eicosanoid metabolizing enzymes such as cyclooxygenases, prostaglandins, and numerous other enzymes, are microsomal membrane associated and are found highly expressed in seminal vesicle tissues. This microsomal fraction has been isolated from ram seminal vesicles with care to minimize the loss of enzymatic activity.
- CONCENTRATION:** 5.0 mg/mL total protein using the BCA protein assay with BSA as a standard.
- STORAGE BUFFER:** 100 mM Sodium Phosphate, 250 mM Mannitol; 1 mM PMSF; 10 mM EDTA; pH 7.8
- STORAGE:** -70°C **AVOID MULTIPLE FREEZE-THAW CYCLES.**
- SOURCE:** Microsomal fractions were derived from frozen ram seminal vesicles that were collected and placed at -80 °C immediately after excision from post-slaughtered male ovine bucks.
- APPLICATIONS:** This microsomal fractionation can be used as a source of active eicosanoid metabolizing enzymes. Many eicosanoids can be solubilized using the following protocol:
NOTE – All steps should be performed on ice, using ice cold solutions, or at 4°C where appropriate.
- 1) Ultracentrifuge suspended microsomes at 110,000 x g for 90 minutes and discard the resulting supernatant.
 - 2) Resuspend microsome pellet in 2-4 x volume of 10 mM Tris-HCl; 0.5 mM EDTA; 1% Tween 20; pH to 8.0 using deoxygenated water with 3 x strokes of a Teflon pestle homogenizer.
 - 3) Stir suspension for 45 minutes.
 - 4) Ultracentrifuge the stirred suspension of microsomes at 100,000 x g for 90 minutes and collect the supernatant of solubilized eicosanoids.
- The solubilized eicosanoids are now ready for further processing or aliquot and storage at -70°C.