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## Effects of Seminal Plasma on Capacitation of Boar Sperm

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These studies investigated the effect of seminal plasma (SP) on capacitation as determined by chlortetracycline staining. The first study examined the addition of 0 or 20% (v/v) SP to freshly ejaculated sperm capacitated in a capacitation-supporting environment at 39 C or by slow cooling the sperm to 5 C and rewarming to 39 C. The second study examined the addition of 0, 10, or 20% (v/v) SP to frozen-thawed (FT) sperm on cryocapacitation. The third study

examined the effect of the presence of egg yolk freezing extender and incubation temperature on the effects of 10% (v/v) SP addition to FT semen. The addition of SP was able to reverse capacitation of sperm capacitated in a capacitation-supporting environment, cooled to 5 C and rewarmed to 39 C, and cryocapacitated FT sperm. However, the effects of SP are only evident at 39 C in the absence of egg yolk.