**Cryptosporidium** Hyperimmune Bovine Colostrum

**Catalog No. ARP-1672**
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**Lot No. 9/14/1992**

**Manufacturing Date: 14SEP1992**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
Joseph H. Crabb, Ph.D., ImmuCell Corporation, Portland, Maine, USA

**Product Description:**
ARP-1672 contains *Cryptosporidium* hyperimmune colostrum produced in a pregnant cow. Treatment with bovine colostrum hyperimmune to *Cryptosporidium* is effective for prophylaxis and reduction of *Cryptosporidium*-associated diarrhea.¹,²

**Material Provided:**
Each vial contains approximately 35 mL of *Cryptosporidium* hyperimmune bovine colostrum.

**Packaging/Storage:**
ARP-1672 was packaged aseptically in plastic tubes. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Functional Activity:**
ARP-1672 gave an anti-*Cryptosporidium* (oocyst/sporozoite) ELISA titer of 260,000 ± 23,000, gave an IgG concentration of 40.8 mg per mL by non-reducing SDS-PAGE and scanning densitometry, and displayed strong oocyst and sporozoite reactivity by immunofluorescence. Viability was demonstrated with a total plate count of 231 colony forming units (cfu) per mL, with *Escherichia coli* and *Salmonella* both yielding < 1 cfu per mL. Efficacy was demonstrated in a calf challenge/prophylaxis model of cryptosporidiosis and in an adult BALB/c (nu/nu) model of chronic cryptosporidiosis.

**Citation:**
Acknowledgment for publications should read “The following reagent was provided by the NIH AIDS Reagent Program for distribution by BEI Resources, NIAID, NIH: *Cryptosporidium* Hyperimmune Bovine Colostrum, ARP-1672, contributed by Dr. Joseph H. Crabb.”

**Biosafety Level: 2**

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**References:**
2. Fayer, R., et al. “Efficacy of Hyperimmune Bovine Colostrum for Prophylaxis of Cryptosporidiosis in

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