

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C12Q 1/68, C07H 21/04	A1	(11) International Publication Number: WO 96/34978 (43) International Publication Date: 7 November 1996 (07.11.96)
(21) International Application Number: PCT/AU96/00274 (22) International Filing Date: 6 May 1996 (06.05.96) (30) Priority Data: PN 2831 5 May 1995 (05.05.95) AU (71) Applicants (for all designated States except US): MAC-QUARIE RESEARCH LIMITED [AU/AU]; Balaclava Road, North Ryde, NSW 2113 (AU). SYDNEY WATER CORPORATION LIMITED [AU/AU]; 51 Hermitage Road, West Ryde, NSW 2114 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): VESEY, Graham [GB/AU]; 10 Plunkett Street, Drummonyne, NSW 2047 (AU). VEAL, Duncan [GB/AU]; 70 Finlay Road, Turramurra, NSW 2074 (AU). WILLIAMS, Keith, Leslie [AU/AU]; 23 Nandi Avenue, Frenchs Forest, NSW 2086 (AU). ASHBOLT, Nicholas, John [AU/AU]; 706/12 Macleay Street, Potts Point, NSW 2011 (AU). DORSCH, Matthias [DE/AU]; 2B Morrice Street, Lane Cove, NSW 2066 (AU). (74) Agent: F.B. RICE & CO.; 28A Montague Street, Balmain, NSW 2041 (AU).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: **METHOD FOR THE DETECTION OF VIABLE CRYPTOSPORIDIUM PARVUM OOCYSTS**

(57) Abstract

Oligonucleotide molecules and methods are disclosed for the detection of viable oocysts or other cells of the protozoa species, *Cryptosporidium parvum*. Preferred oligonucleotide molecules are selected from the group comprising oligonucleotides having one or more of the following sequences; (a) ACA ATT AAT, (b) CTT TTT GGT, (c) AAT TTA TAT AAA ATA TTT TGA TGA A, (d) TTT TTT TTT TTA GTA T, e) TAT ATT TTT TAT CTG, (f) CTT TAC TTA CAT GGA TAA CCG, or comprising a part of the sequences (a) to (f) above so as to allow specific hybridisation to unique 18S rRNA sequences of *C. parvum*.