CIPAC MT STATUS REPORT

13.08.2005

MT 188 Free a.i. in microencapsulated formulations of parathion-methyl

Allocated to DK

CIPAC methods published in:

CIPAC L, p. 132

CIPAC 46th meeting, June 2002 in Rome

Dr Sørensen presented results from a small-scale trial of a method for the determination of 'free' parathion methyl in capsule suspensions. The 'free' AI is determined by following dilution the formulation with a non-ionic surfactant in water, mixing for one hour and analysis of the micellar component (containing the free parathion methyl) by HPLC. It was noted the stirring method used was critical.The test overestimates the free AI and use in a specification is likely to include an upper limit for 'free' AI.

CIPAC 47th meeting, June 2003 in Bucharest

Mrs.E.Sørensen noted that it was the fifth time that she was presenting a collaborative study for measuring free parathin methyl in capsule suspensions by HPLC. Four samples were sent to eleven laboratories and results were received from only eight of them. The method was suggested for acceptance as a provisional CIPAC method . Mr Hill sought clarification on the saturation concentration of the a.s. in the extraction solution with surfactant. Mrs.E.Sørensen replied that the method can measure up to 10% parathion methyl concentration in the formulation. It was proposed to include this information in the method description. Dr Müller asked if the active ingredient could be determined by NMR. Mr. Bjornholm replied that they tried, but this was not possible.

CIPAC 48th meeting, June 2004 in Brno

Decision The HPLC method for the determination of free parathion-methyl in microencapsulated formulations was accepted as a **provisional** CIPAC MT method with the provision of an upper limit for the a.i. content.

CIPAC 49th meeting, June 2005 in Utrecht

Decision The HPLC method for the determination of free parathion-methyl in microencapsulated formulations was accepted as **full** CIPAC MT method.