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Title	Assessment of the irritant potential of a test element by determination of its haemolytic and denaturing power against proteins (Red Blood Cells Test)
Reference	Adapted from Pape (IN VITTOX, study plan n° 37, Red Blood Cell Test System) (IP 37 January 1992).
Objective	To assess the irritant potential of a test element with a tension-active nature
Test system	Sheep red blood cells
Schedule	Duration of the study: 1 day Beginning: 3 weeks upon receipt of the sample Report: 2-3 weeks after the end of the study
Quantity	2 x 20 g
Methodology	Determination of the released quantity of haemoglobin (oxyhaemoglobin) and denatured proteins into the supernatant by spectrophotometry (VISIONlite™ software). Calculation of the concentration in test element inducing 50% of cell lysis (H50). Calculation of the denaturation index (DI) against the denaturation observed with a sodium dodecyl sulfate solution. Calculation of the ratio H50/DI and connection to the eye irritant potential of the test element according to an established grading scale.
Procedure	<ul style="list-style-type: none">• Haemolysis test:<ul style="list-style-type: none">- contact of the test element with red blood cells- dosage of the released haemoglobin• Protein denaturation test:<ul style="list-style-type: none">- dosage of damaged proteins