

# Corrosivity: Corrositex™ test

- **Objective:** in vitro testing system that mimics the effect of corrosives on living skin and classifies the level of corrosivity of chemical compounds
- **Principle:** as the corrosive sample passes through or destroys this bio-barrier, the underlying liquid Chemical Detection System changes color or texture. The time it takes for the sample to break through the membrane is recorded and is used to predict for the corrosivity of the test substance
- **Development Stage:** validation state / Routine
- **Results / data:** classification of compounds as strong to weak corrosive and non-corrosive
- **Applicability Domain:** hazard identification, cosmetics and pharmaceutical industry

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## Experimental layout

Step 1: Qualify: compatible with kit?

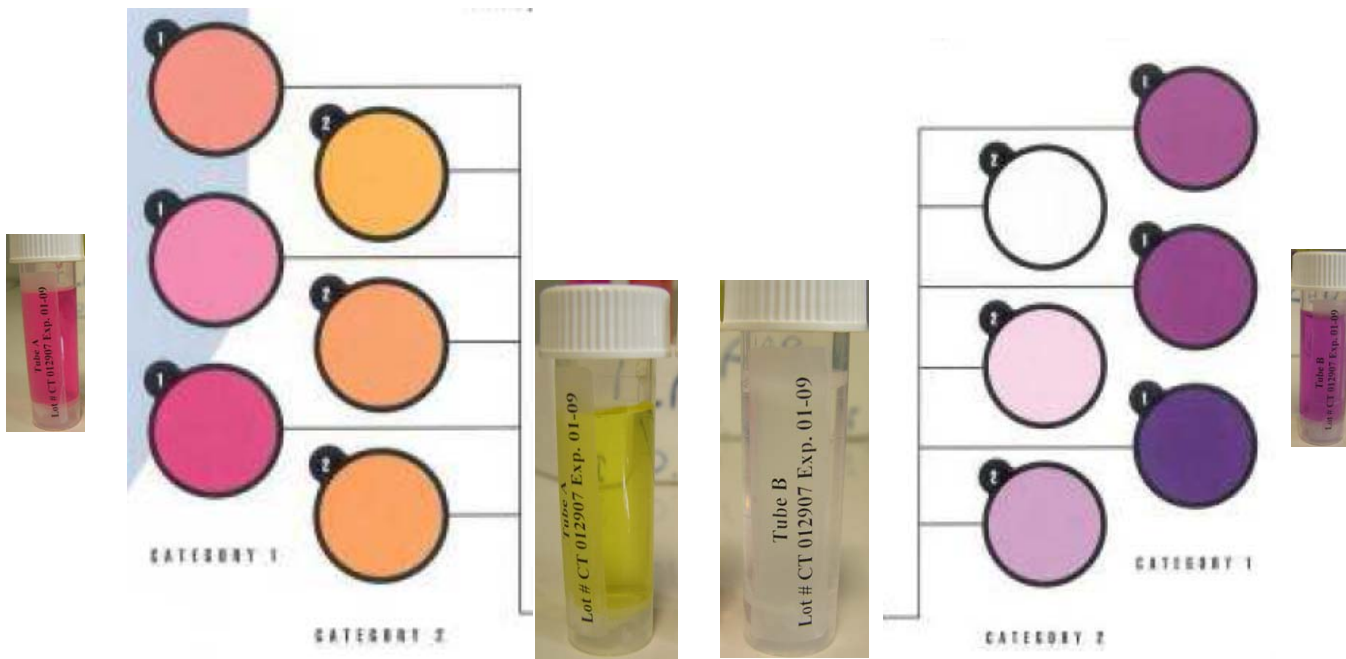


+ chemical



change colour= OK

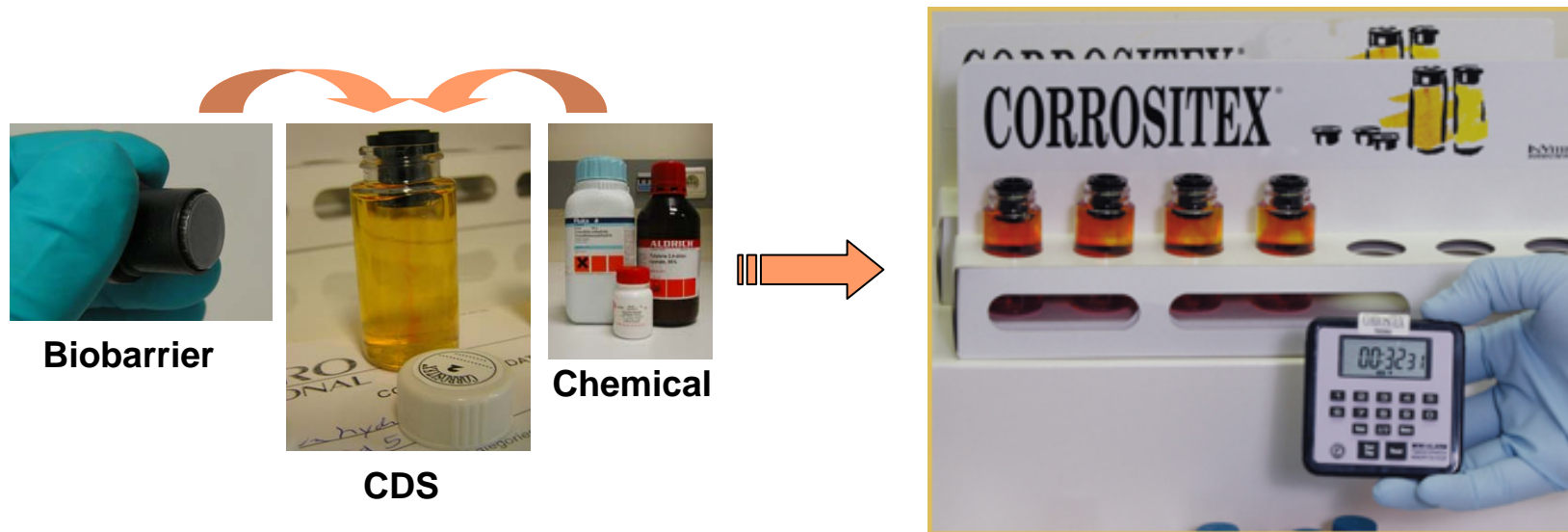
Step 2: Categorize: assign category 1 or 2



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Step 3: classify: assign corrosive - non corrosive



	<b>CORROSITEX Time (min)</b>			
<b>Category 1</b>	0 to 3 min	>3 to 60 min	>60 to 240 min	>240 min
<b>Category 2</b>	0 to 3 min	>3 to 30 min	>30 to 60 min	>60min
	⇓	⇓	⇓	⇓
	<b>Packing group I</b>	<b>Packing group II</b>	<b>Packing group III</b>	<b>Non-corrosive</b>
	<b>Strong corrosive</b>	<b>corrosive</b>	<b>weak corrosive</b>	<b>non corrosive</b>