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The invention is related to the new inclusion complexes which are stable in their solid state formed by the open form of sidnonimine SIN-1A and cyclodextrins or cyclodextrins derivatives and optionally also containing ions as catalysts or stabilizers. The complexes release nitric oxide at room temperature upon dissolving in water or aqueous systems.

Pharmaceutical compositions as well as kits containing the complexes are also claimed. The kits are to be used as NO-liberating standards to release NO in a predictable amount and rate on dissolving in aqueous media.

The invention is related also to the process for preparation of the complexes by subjecting at a suitable pH SIN-1 to the catalytic action of ions to shift the equilibrium towards formation of SIN-1A in the presence of host molecules, whereby the SIN-1A formed is immediately complexed and stabilised.