MGD . sodium salt . monohydrate

Spin trapping reagent

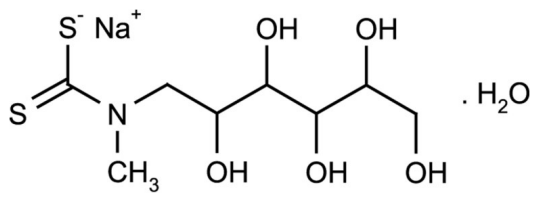
Together with $FeSO_4$ MGD is a useful component for the formation of the MGD_2-Fe^{2+}complex, which is an excellent nitric oxide (NO) spin-trapping reagent. The MGD_2-Fe2+complex is quite unstable, especially in the presence of dissolved oxygen. Thus, the complex should be used immediately after being made. An excess (usually 5-fold excess), of MGD to Fe2+ is used for making the complex with $FeSO_4$ to give a more stable complex solution. Acidic conditions should be avoided because dithiocarbamate tends to decompose forming toxic carbon disulfide. It was reported that MGD and $Fe(MGD)_2$ do not exhibit toxicity up to 8mmol/kg and 0.3mmol/kg, respectively.

Citations: 15 View Online »

Ordering Information Order Online »

ALX-400-014-M050	50mg
ALX-400-014-M250	250mg

Manuals, SDS & CofA View Online »


S- Na+
OH
OH
S
N
CH3
OH
OH
OH
. H2O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	N-(Dithiocarbamoyl)-N-methyl-D-glucamine . Na . H2O, N-Methyl-D-glucamine dithiocarbamate
Appearance	White to off-white solid.
CAS	91840-27-6
Formula	$C_8H_{16}NO_5S_2Na \cdot H_2O$
MW	293.3 . 18.0
Purity	≥98% (HPLC)
Solubility	Soluble in water.

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