## 6-Formylpterin (Pterin-6-aldehyde)

Product number 11.415 CAS number 712-30-1

## Attention: 6-Formylpterin is extremely sensitive to light!

3.6 I of water is heated to 85°C. 3.4 g of finely ground biopterin are added. The suspension is mixed and after 20 minutes most of the biopterin is dissolved. 13.6 g of NaJO4 dissolved in 100 ml of water are added. A pale-yellow suspension forms.

Attention: acetaldehyde escapes!

The reaction mixture is allowed to stand overnight.

Before filtration, most part of the reaction solution is drawn off.

The 6-formylpterin is filtered and the filter cake is rinsed with 200 ml of water and then dried in a vacuum desiccator over NaOH to give 5.4 g of 6-formylpterin.

Purity: 97.3% (HPLC)

Description: yellow light powder

Solubility: 6-formylpterin is only slightly soluble in water. For

concentrated solutions it may be advisable to add a few drops of conc. ammonium hydroxide and ultrasonicate. Only a minimal

amount of ammonium hydroxide should be added.

Attention: 6-Formylpterin is not stable in basic solutions!

C<sub>7</sub>H<sub>5</sub>N<sub>5</sub>O<sub>2</sub> 191.14

C 43.99% H 2.64% N 36.64% O 16.74% Product no. 11.415

6-Formylpterin

HPLC:

Column Waters Sperisorb S5-ODS1

Eluant 10 mM Na2HPO4 pH 7 - Aceto nitrile, (39:1)

Flow 1 ml/min Wavelength 254 nm

Concentration 1 mg/4 ml plus minimal ammonium hydroxide to dissolve

Purity >95.0%