

(6R,S)-5,10-Methylene-5,6,7,8-tetrahydrofolic acid, calcium salt

Product number 16.226

The amount of formaldehyde used, decides how many impurities arise. The optimal amount has to be found through trials.

14 g of tetrahydrofolic acid trihydrochloride are dissolved in 160 ml of water, that has been degassed by argon. Attention the FH4 may lump. Argon is bubbled through the solution and ammonia solution is added until a pH of 9.0 is reached.

2.8 g of formaldehyde solution 36% are added.

After 10 minutes a solution of 10.8 g of $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ in 70 ml of degassed water are added.

The mixture is evaporated to about 180 ml and after 1 hour the precipitated (6R,S)-5,10-methylene-5,6,7,8-tetrahydrofolic acid calcium salt is filtered and the filter cake is rinsed with water and dried in a vacuum desiccator over NaOH.

Purity 95.1%

Description: brownish powder

5,10-Methylenetetrahydrofolic acid reacts rapidly with oxygen in solution.

The preparation of the sample for the HPLC should be performed quickly and the sample must be injected immediately on completion of its preparation.

Data Sheet: There is a data sheet available for this compound.

Data sheets can be found in the price list by clicking on the product number of your choice.