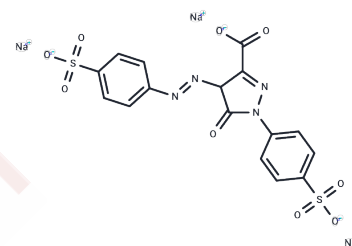


## Food Yellow No. 5 Aluminum Lake

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 12225-21-7   |
| Formula:          | C <sub>16</sub> H <sub>9</sub> N <sub>4</sub> Na <sub>3</sub> O <sub>9</sub> S <sub>2</sub>  |
| Molecular Weight: | 534.36   |
| Storage:          | Keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | FD&C Yellow No. 5 Aluminum Lake is a synthetic lemon yellow azo dye primarily used as a food coloring. |
| Targets(IC50) | Others   |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 1.8714 mL | 9.357 mL  | 18.714 mL |
| 5 mM  | 0.3743 mL | 1.8714 mL | 3.7428 mL |
| 10 mM | 0.1871 mL | 0.9357 mL | 1.8714 mL |
| 50 mM | 0.0374 mL | 0.1871 mL | 0.3743 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Songyang Y, Yang X, Xie S, Hao H, Song J. Highly-sensitive and rapid determination of sunset yellow using functionalized montmorillonite-modified electrode. *Food Chem.* 2015 Apr 15;173:640-4. doi: 10.1016/j.foodchem.2014.10.075. Epub 2014 Oct 22. PubMed PMID: 25466070.
- Zhang Y, Chang C, Guo Q, Cao H, Bai Y, Liu H. [Analysis of tartrazine aluminum lake and sunset yellow aluminum lake in foods by capillary zone electrophoresis]. *Se Pu.* 2014 Apr;32(4):438-42. Chinese. PubMed PMID: 25069336.
- Desai A, Peck GE, Lovell JE, White JL, Hem SL. The effect of aluminum hydroxide dissolution on the bleeding of aluminum lake dyes. *Pharm Res.* 1993 Oct;10(10):1458-60. PubMed PMID: 8272407.

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