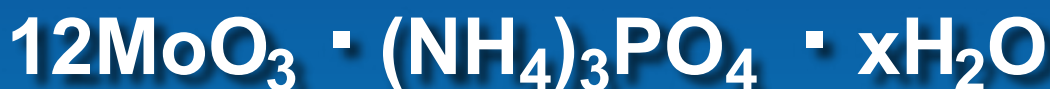


New

# AMP for Cesium Ion Selective and Efficient Adsorbent



Ammonium Phosphomolybdate Hydrate [for Cesium selective adsorbent]  
(= AMP Hydrate)

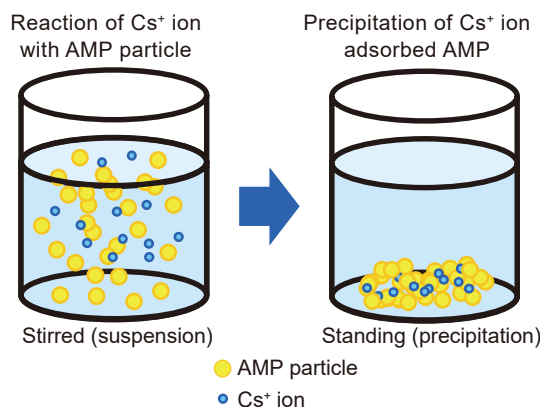
25g  
[A3658]

## Advantages

- Allows the selective adsorption of caesium ions ( $\text{Cs}^+$ )
- Cesium ion adsorption efficiency:  $\geq 99\%$  (by AMP method)
- One possible application is a recovery of radioactive cesium ion

## Adsorption of cesium ion (AMP method)

1. Prepare an acidic aqueous solution with a pH of 1.0 using nitric acid or hydrochloric acid
2. Add cesium chloride [C2203] to the aqueous solution
3. Stir to completely dissolve the cesium chloride (colorless and transparent)
4. Add AMP [A3658] (equivalent to 100 times of the Cs weight)
5. Stir for 1 hour (yellow suspension)
6. Leave to stand overnight, and then  $\text{Cs}^+$  adsorbed AMP precipitates (yellow precipitate)



Reference AIST, Concentration and measurement methods for dissolved radioactive Cs, Section 7.2 AMP Method  
[https://unit.aist.go.jp/georesenv/geoevaluation/ja/researchs/MoniCons/techdata/02\\_Cs-water-ppt\\_07.pdf](https://unit.aist.go.jp/georesenv/geoevaluation/ja/researchs/MoniCons/techdata/02_Cs-water-ppt_07.pdf)

## Related Products

Cesium Chloride	25g / 100g [C2203]
Cesium Bromide	25g / 100g [C2202]
Cesium Iodide	25g [C2205]
Cesium Acetate	25g / 100g [C2430]
Cesium Carbonate	25g / 100g [C2160]

## Ordering and Customer Service

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