



Technical Data Sheet

ACS Material Mesoporous Silica Molecular Sieve KIT-5

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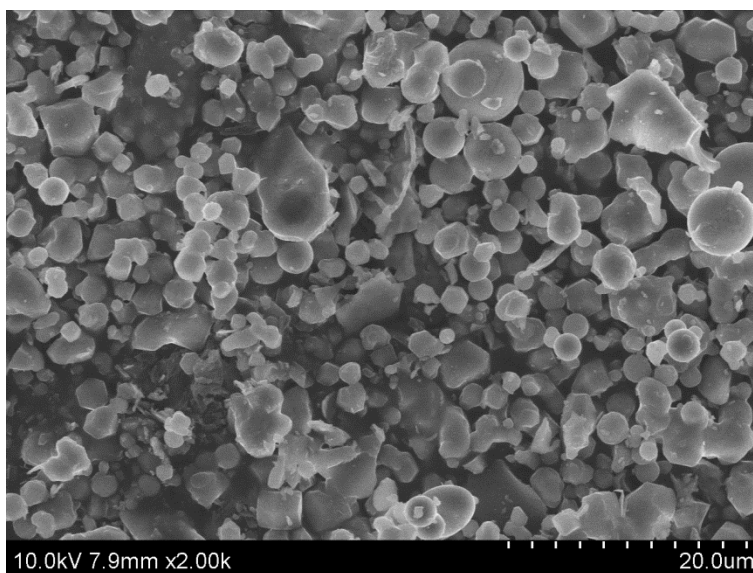
Revision: 062917

1. Preparation Method

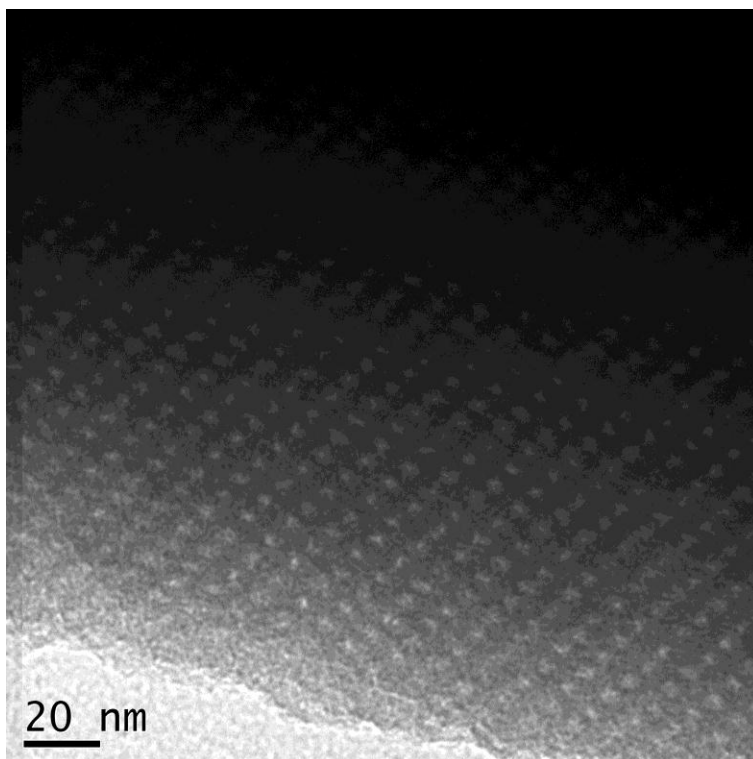
Hydrothermal Method

2. Characterizations

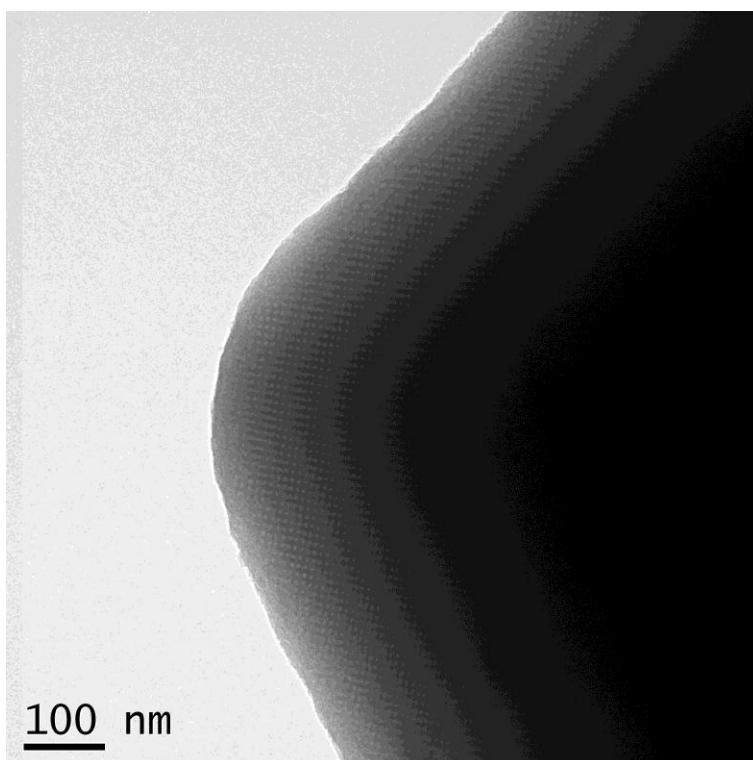
| | |
|---|------------|
| Appearance: | Powder |
| Particle Size (μm): | 2~5 |
| Average Pore Diameter (nm): | 4.8 |
| BET surface area (m^2/g): | ~ 600 |
| Na₂O (%): | ≤ 0.1 |
| Comparative Crystallinity (%): | ≥ 90 |



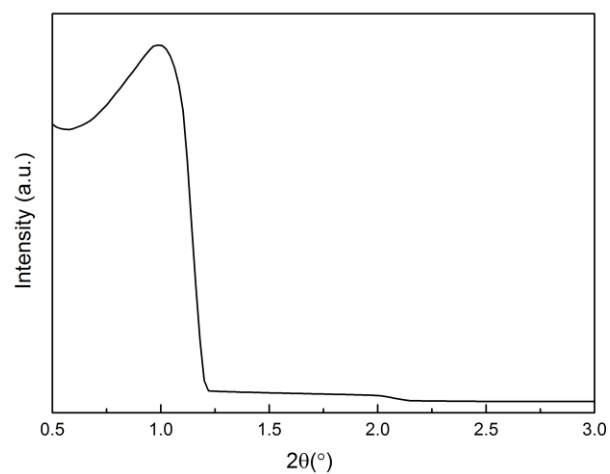
Typical SEM Image of ACS Material Mesoporous Silica Molecular Sieve KIT-5



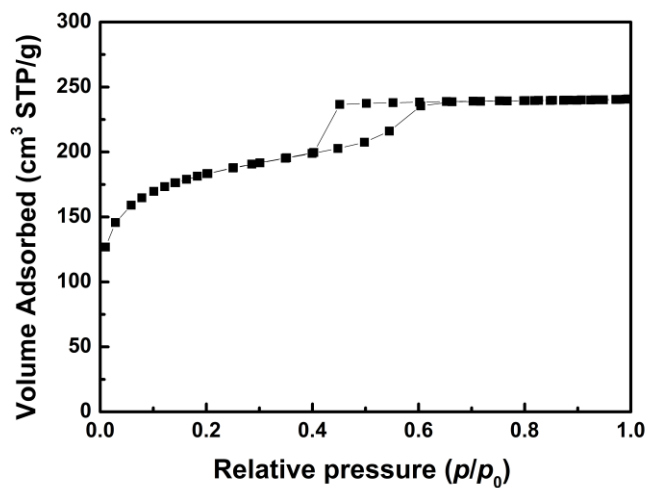
Typical TEM Image of ACS Material Mesoporous Silica Molecular Sieve KIT-5 (1)



Typical TEM Image of ACS Material Mesoporous Silica Molecular Sieve KIT-5 (2)



XRD Analysis of ACS Material Mesoporous Silica Molecular Sieve KIT-5



BET Analysis of ACS Material Mesoporous Silica Molecular Sieve KIT-5

3. Application Fields

- 1) Catalyst carrier
- 2) As a templating agent
- 3) Separation of biochemicals

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