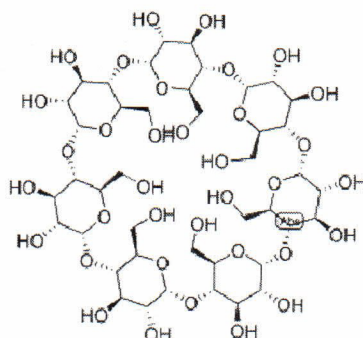


Beta-cyclodextrin

Batch no 241104
 Mf date Nov 05 2024
 Retest Nov 04 2026
 Batch size 12400 kg

Molecular Structure



Molecular Formula $C_{42}H_{70}O_{35}$
 Molecular Weight 1134.98
 CAS Registry Number 7585-39-9

Nov 21 2024

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White crystal powder, odorless, slightly sweet taste	Conforms
Solubility	Slightly soluble in water, almost insoluble in methyl alcohol, ethyl alcohol, acetone or diethyl ether	Conforms
Identification	Iodine test reaction, HPLC, IR	Positive
Clarity	The solution is clear & colourless	Conforms
Alpha cyclodextrin	$\leq 0.25\%$	Conforms
Gamma cyclodextrin	$\leq 0.25\%$	Conforms
pH	5.0 ~ 8.0	6.4
Specific rotation	+159 ~ +164°	+162°
Chloride	$\leq 0.018\%$	< 0.018%
Light-absorbing of impurities	≤ 0.10 (230 ~ 350 nm) ≤ 0.05 (350 ~ 750 nm)	Conforms Conforms
Reductive sugar	$\leq 1.0\%$	< 1.0%
Cyclohexane	$\leq 0.388\%$	< 0.388%
Loss on drying	$\leq 14\%$	11.9%
Residue on ignition	$\leq 0.1\%$	0.05%
Heavy metals	≤ 10 ppm	< 10 ppm
Microbiology	Total aerobic microbial count ≤ 1000 cfu/g Total combined molds & yeasts count ≤ 100 cfu/g Escherichia coli Absent	80 cfu/g 40 cfu/g Absent
Assay	98.0 ~ 102.0%	100.8%

Packaging & storage	Preserve in tight and light-resistant containers. Store at room temperature.
Conclusion	Material complies with in house standard