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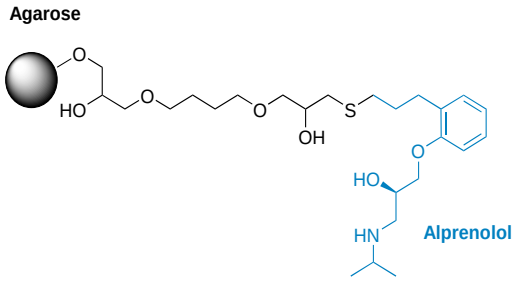
Certificate of Analysis

Description of the Material:

(a) **Chemical Name:** Alprenolol Agarose
(b) **CAS Registry Number:** N/A
(c) Chemical Structure:



(d) **Immobilization method:** immobilized through free radical addition of thiol agarose to the double bond of alprenolol.
(e) **Ligand**: Alprenolol
(f) **Form/Appearance:** Suspension in water.
(g) **Matrix:** 4% beaded Agarose (source: GE Life Sciences)
(h) **Spacer:** 12 atoms
(i) **Particle size:** 45 – 165 µm
(j) **Ligand concentration:** ~1.67 µmole per ml based on DTNB assay of thiol (sulfhydryl group) content of the resin prior to coupling of alprenolol.
(k) **Amount:** Packaged as 1 mL, 5 mL, or 25 mL settled beads.
(l) **Usage:** Can be used in a column format or batch process mode.

Material Code and Batch Number:

(a) **Product Numbers**: CM29101-1ML or CM29101-5ML or CM29101-25ML
(b) **Lot Number**: S173.S9.050721

Intended use: For research and development use only.

Hazard information: See SDS

Shelf life, Storage condition and Expiration date: Alprenolol agarose is very stable. Recommended long-term storage is 2-8 °C. Do not freeze.

Expiration Date: 1 year after receiving if stored at 2-8 °C.

Certified by: Yumei Huang
Certifying Officer: Yumei Huang