

|                   |  |
|-------------------|--|
| Item Number       | EP130  |
| Item              | Epinephrine, USP   |
| CAS Number        | 51-43-4  |
| Molecular Formula | C <sub>9</sub> H <sub>13</sub> NO <sub>3</sub>                               |
| Molecular Weight  | 183.20   |
| MDL Number        |  |
| Synonyms          | (R)-1-(3,4-Dihydroxyphenyl)-2-methylaminoethanol ; Adrenaline ; L-Adrenaline |

| Test                       | Specification                          |             |
|----------------------------|--|-------------|
|                            | Min                                    | Max         |
| ASSAY (DRIED BASIS)        | 98.0                                   | 102.0 %     |
| LOSS ON DRYING             |  | 1.0 %       |
| RESIDUE ON IGNITION        |  | 0.1 %       |
| ENANTIOMERIC PURITY        |  | 3.0 %       |
| ORGANIC IMPURITIES:        |  |             |
| EPINEPHRINE SULFAONATE     |  | 0.2 %       |
| NOREPINEPHRINE             |  | 0.2 %       |
| OXEDRINE                   |  | 0.10 %      |
| ADRENALONE                 |  | 0.2 %       |
| EPININE                    |  | 0.10 %      |
| EPINEPHRINE METHOXY ANALOG |  | 0.10 %      |
| N-BENZYL EPINEPHRINE       |  | 0.1 %       |
| N-BENZYL ADRENALONE        |  | 0.1 %       |
| ANY INDIVIDUAL IMPURITY    |  | 0.10 %      |
| Total impurities           |  | 0.5 %       |
| ELEMENTAL IMPURITIES:      |  |             |
| PLATINUM (Pt)              |  | AS REPORTED |
| IDENTIFICATION (A) FTIR    | SPECTRUM MATCHES REFERENCE             |             |
| IDENTIFICATION (B)         | RETENTION TIME CORRESPONDS TO STANDARD |             |
| APPEARANCE                 |  |             |
| EXPIRATION DATE            |  |             |
| DATE OF MANUFACTURE        |  |             |
| RESIDUAL SOLVENTS          |  | AS REPORTED |

| Test                         | Specification |     |
|------------------------------|---------------|-----|
|                              | Min           | Max |
| CLASS 2 (SOLVENT) / METHANOL | .             |     |
| CLASS 3 (solvent) / ETHANOL  | .             |     |
| MONOGRAPH EDITION            |               |     |

***Spectrum Chemical Mfg Corp***

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|---------------------------------------|------------------------------------|
| <b><i>Corporate Headquarters:</i></b> | <b><i>West Coast Facility:</i></b> |
| 769 Jersey Ave.                       | 14422 S. San Pedro St.             |
| New Brunswick, NJ 08901               | Gardena, CA 90248                  |
| 732.214.1300                          | 310.516.8000                       |