



No. : .....



Date : .....

## Certificate of Acid Acetic's Product

| TEST                            | METHOD                                | RESULT                                  | LIMIT (SPEC)                            |
|---------------------------------|---------------------------------------|---|---|
| Appearance                      | MAP-SM111                             | Clear:free from matter<br>in suspension | Clear:free from matter<br>in suspension |
| Purity (WT %)                   | MAP-70014                             | Greater than 99.85                      | Min 99.85                               |
| Water (WT%)                     | ASTM-D1364                            | LESS THAN 0.15                          | Max 0.15                                |
| Formic ACID (WT%)               | ASTM-D13546                           | LESS THAN 0.050                         | Max 0.050                               |
| Density@20°CKg/lit              | ASTM-D1298                            | 1.048-1.051                             | 1.048-1.051                             |
| Acetaldehyde (WT%)              | ASTM-D2191                            | LESS THAN 0.02                          | Max 0.02                                |
| Permanganate Time@20C,<br>hours | MAP-70019                             | Greater than 2 hours                    | Minimum 2 hours                         |
| Crystallization point           | ASTM-D1493                            | Greater than 16.35°C                    | 16.35°C Min                             |
| Sulphates (as SO <sub>4</sub> ) | MAP-70021                             | LESS THAN IPPM                          | Max 1ppm                                |
| Chloride (as CL)                | MAP-70020                             | LESS THAN IPPM                          | Max 1ppm                                |
| Total Iron (ppm)                | ASTM-E394                             | LESS THAN 1.0                           | Max 1.0                                 |
| Propionic Acid (WT%)            | M602.515                              | LESS THAN 0.010                         | Max 0.010                               |
| Non volatile matter (WT%)       | ASTM-D1353                            | LESS THAN 0.003                         | Max 0.003                               |
| Heavy metals (as Pb)            | Determination by Atomic<br>Absorption | LESS THAN 0.5                           | Max 0.5ppm                              |
| Color (APHA)                    | ASTM-D1209                            | BELOW 10 APHA                           | Max 10APHA                              |

P E T R O A R S E S C o .

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