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| Document ID: | TDS-MCP-042-50L | Version: | 004 |
| Date of Issue: | 30-APR-2021 | Approved by: | Anna Becker |
| Review Date: | 10-JAN-2022 | Signature: | <i>Anna Becker</i> |
| Title: | TECHNICAL DATA SHEET | | |

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|---------------------------------|--|
| Product Name | RPMI 1640 |
| Filtration/Treatment | Without L-Glutamine and without Phenol Red |
| Product Codes | MCP-042-50L |
| Shelf Life | 4 years |
| Storage Temperature | 2 to 8 °C |
| Shipping Temperature | ambient |
| Substance | Concentration (mg/L) |
| Amino Acids | |
| Glycine | 10.00 |
| L-Arginine, Hydrochloride | 242.31 |
| L-Asparagine, Anhydrous | 50.00 |
| L-Aspartic Acid | 20.00 |
| L-Cystine, Dihydrochloride | 65.00 |
| L-Histidine, Anhydrous | 15.00 |
| L-Hydroxyproline | 20.00 |
| L-Isoleucine | 50.00 |
| L-Leucine | 50.00 |
| L-Lysine, Hydrochloride | 40.00 |
| L-Methionine | 15.00 |
| L-Phenylalanine | 15.00 |
| L-Proline | 20.00 |
| L-Serine | 30.00 |
| L-Threonine | 20.00 |
| L-Tryptophan | 5.00 |
| L-Tyrosine, Disodium, Dihydrate | 29.00 |
| L-Valine | 20.00 |
| Vitamins | |
| Biotin | 0.20 |
| Choline Chloride | 3.00 |
| D-Calcium Pantothenate | 0.25 |
| Folic Acid | 1.00 |
| Myo-Inositol | 35.00 |
| Niacinamide | 1.00 |
| para-Aminobenzoic Acid | 1.00 |
| Pyridoxine, Hydrochloride | 1.00 |
| Riboflavin | 0.20 |
| Thiamine, Hydrochloride | 1.00 |
| Vitamin B12 | 0.01 |
| Other Components | |
| D-Glucose, Anhydrous | 2000.00 |
| Glutathione, Reduced | 1.00 |
| Inorganic Salts | |
| Calcium Nitrate, Tetrahydrate | 100.00 |
| Magnesium Sulfate, Anhydrous | 48.84 |
| Potassium Chloride | 400.00 |



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| Substance | Concentration (mg/L) |
|---------------------------------------|--------------------------------|
| Sodium Chloride | 6000.00 |
| Sodium Phosphate Dibasic, Anhydrous | 800.70 |
| Specifications | |
| Appearance | Off-white powder |
| Solubility | 10.11 g/L in \leq 30 minutes |
| Moisture Content | \leq 2.0 % |
| Particle Size (100 mesh) | \geq 90% |
| pH without NaHCO ₃ | Record |
| pH with NaHCO ₃ | Record |
| Osmolality without NaHCO ₃ | Record |
| Osmolality with NaHCO ₃ | Record |
| Endotoxin | \leq 1.0 EU/ml |
| Mycoplasma | Not detected |
| Cell Culture – Cell Growth Promotion | 3 Passages |
| Viability | \geq 75% |

Note: Sodium Bicarbonate is not included in the powdered media (2000.00 mg/L).

THIS PRODUCT IS FOR LABORATORY USE ONLY.