BRAMANTE BIOLOGICS

PRODUCT INFORMATION

RPMI-1640, no L-glutamine, no glucose

Product: MD-LIQ-RPMI-1640-NO-GLUTAMINE-NO-GLUCOSE

Reference revision v1. Updated 2026-10-26.

Product at a glance

D-Glucose: Not included

L-Glutamine: Not included

Sodium pyruvate: Not included

Sodium bicarbonate: 2 g/L

Phenol red sodium salt: 5 mg/L

HEPES: Not included

Composition and intended use

RPMI-1640 without L-glutamine or D-glucose, with phenol red and sodium bicarbonate. All other ingredients and chemical forms are identical to the paired glutamine-free, glucose-containing formulation.

Water to final volume. Contains no added L-glutamine or glutamine-containing dipeptide. Serum, antibiotics and growth factors are not included.

Use the supplementation and carbon dioxide conditions specified for the cell model. Check final pH and osmolality. This nominal formulation does not establish batch release or validated performance equivalence.

Using and storing this product

2–8 °C, protected from light.

Use aseptic technique. Follow the storage conditions and expiry date on the lot label. Inspect the medium for unexpected cloudiness, precipitate or a marked color change before use.

Lot-specific results are reported on the Certificate of Analysis. For research use only.

Nominal formulation

Nominal amounts are per final litre and rounded for display. Chemical forms define the amounts; water brings the solution to final volume.

Glycine (Free amino acid): 10 mg/L

L-Arginine (Free base): 200 mg/L

L-Asparagine (Monohydrate): 56.82 mg/L

L-Aspartic acid (Free acid): 20 mg/L

L-Cystine dihydrochloride (Dihydrochloride): 65 mg/L

L-Glutamic acid (Free acid): 20 mg/L

L-Histidine (Free base): 15 mg/L

trans-4-Hydroxy-L-proline (Free amino acid): 20 mg/L

L-Isoleucine (Free amino acid): 50 mg/L

L-Leucine (Free amino acid): 50 mg/L

L-Lysine hydrochloride (Monohydrochloride): 40 mg/L

L-Methionine (Free amino acid): 15 mg/L

L-Phenylalanine (Free amino acid): 15 mg/L

L-Proline (Free amino acid): 20 mg/L

L-Serine (Free amino acid): 30 mg/L

L-Threonine (Free amino acid): 20 mg/L

L-Tryptophan (Free amino acid): 5 mg/L

L-Tyrosine disodium salt (Dihydrate): 29 mg/L

L-Valine (Free amino acid): 20 mg/L

D-Biotin (Anhydrous): 200 µg/L

Choline chloride (Anhydrous-basis material): 3 mg/L

D-Calcium pantothenate (Calcium salt; anhydrous-basis assay): 250 µg/L

Folic acid (Anhydrous): 1 mg/L

Niacinamide (nicotinamide) (Anhydrous): 1 mg/L

p-Aminobenzoic acid (Free acid): 1 mg/L

Pyridoxine hydrochloride (Hydrochloride): 1 mg/L

Riboflavin (Anhydrous): 200 µg/L

Thiamine hydrochloride (Hydrochloride): 1 mg/L

Cyanocobalamin (vitamin B12) (Cyanocobalamin): 5 µg/L

myo-Inositol (Anhydrous): 35 mg/L

Calcium nitrate ($Ca(NO3)2·4H2O$ tetrahydrate): 100 mg/L

Magnesium sulfate ($MgSO4·7H2O$ heptahydrate): 100 mg/L

Potassium chloride (KCl): 400 mg/L

Sodium bicarbonate ($NaHCO3$): 2 g/L

Sodium chloride (NaCl): 6 g/L

Sodium phosphate dibasic (Anhydrous $Na2HPO4$): 800 mg/L

Glutathione (Reduced): 1 mg/L

Phenol red sodium salt (Monosodium salt): 5 mg/L

For lot-specific quality-control results, see the Certificate of Analysis.