

Protocol Section:	Media	Policy No:	P-CMMR5-KSO-00
Protocol Subject:	K Simplex Optimization Medium	Effective Date:	
		Date Reviewed:	6 January 2003
		Date Revised:	

K Simplex Optimization Medium

KSOM	100 ml	200 ml	500 ml	mM
NaCl	0.56 g	1.11 g	2.775 g	95
KCl	18.5 mg	37 mg	93.5 mg	2.5
KH ₂ PO ₄	4.75 mg	9.5 mg	23.75 mg	0.35
MgSO ₄ ·7H ₂ O	4.95 mg	9.9 mg	24.7 mg	0.2
Na Lactate	0.174 ml	384 ul	870 ul	11.8
Na Pyruvate	2.2 mg	4.4 mg	11 mg	0.2
Glucose	3.6 mg	7.2 mg	18 mg	0.2
EDTA	0.38 mg	0.76 mg	1.9 mg	0.01
NaHCO ₃	0.21 g	420 mg	1.05 g	25
CaCl ₂ ·2H ₂ O	25 mg	50 mg	125 mg	1.7
L-Glutamine	14.6 mg	29 mg	72.5 mg	1.0
Penicillin G	6.3 mg	12.6 mg	31.5 mg	--
Streptomycin	5 mg	10 mg	25 mg	--
Essential Amino Acids 50x	1 ml	2 ml	5 ml	--
Non Ess AA 100x	0.5 ml	1 ml	2.5 ml	--
Phenol red	0.1 ml	200 ul	500 ul	--

Filter and store at 4 °C for no longer than 4 weeks.

Phenol red: 11 mg/ml.

Essential Amino Acids, 50x, Bio Whittaker, 13-606E

Non Essential Amino Acids, 100x, Gibco, 320-1140AG

1. Prepare 0.1% hyaluronidase solution by weighting 10 mg hyaluronidase into 10ml MEM. Filter, aliquot, and stock in -20 °C.
2. Preparation of ICSI operating media

	50 ml	25 ml	12.5 ml
20mM Hepes	238.3 mg	119.2 mg	59.6 mg
10% FBS	5.5 ml	2.75 ml	1.375 ml
12% PVP	6 g	3 g	1.5 g

Filter and use freshly.

3. Freshly prepare 1mg/ml BSA in KSOM by measuring 3 mg BSA into 3 ml KSOM. Filter and use freshly.

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