1683. CM1A Halorubrum Medium

30% Salt water solution (see below)	829.0	ml
23% MGM (see below)	5.0	ml
Sodium pyruvate	5.5	g
Distilled water	155.0	ml

Adjust pH to 7.5 with 1 M HCl or 1 M NaOH
Autoclave at 121 °C for 20 min.

Before inoculation add from sterile stock solutions:

NH_4Cl (1M)	5.00	ml
K_2HPO_4 (0.5M)	2.00	ml
Trace metal SL-10 (see below)	1.00	ml
Vitamin solution Vit 10 (see below)	3.00	ml

30% Salt Water (1L):

NaCl	240.00	g
$MgCl_2 \times 6H_2O$	30.00	g
$MgSO_4 \times 7H_2O$	35.00	g
$CaCl_2 \times H_2O$	0.74	g
Distilled water	to 1000.00	ml

Dissolve salts completely then add $CaCl_2 \times H_2O$.
Adjust pH to 7.5 with Tris-HCl at pH=7.5

23% MGM (100mL)

30% Salt Water	76.60	ml
Pepton (VWR J636-500g)	0.50	g
Yeast extract (Fisher BioReagents BP1422-500)	0.10	g
Distilled water	23.40	ml

Don't use Difco Bacto-peptone, it was reported in 1988 to contain bile salts that lyse halobacteria, this was still the case in 2001

Adjust pH to 7.5

Trace element solution SL-10:

HCl (25%; 7.7 M)	10.00	ml
$FeCl_2$ x 4 H_2O	1.50	g
$ZnCl_2$	70.00	mg
$MnCl_2$ x 4 H_2O	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2$ x 6 H_2O	190.00	mg
$CuCl_2$ x 2 H_2O	2.00	mg
$NiCl_2$ x 6 H_2O	24.00	mg
Na_2MoO_4 x 2 H_2O	36.00	mg
Distilled water	990.00	ml

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml.

Vitamin solution 1, filter sterilized (per liter) = Vit 1:

p-Aminobenzoic acid	40.0	mg
Biotin	10.0	mg
Nicotinic acid	100.0	mg
Calcium D-(+)-pantothenate	50.0	mg
Pyridoxamine hydrochloride	150.0	mg
Thiamine hydrochloride	100.0	mg
Cyanocobalamin (B12)	50.0	mg

Vitamin solution 2, filter sterilized (per liter) = Vit 2:

DL-6,8-thioctic acid	10.0	mg
Riboflavin	10.0	mg
Folic acid	4.0	mg

Vit 10:

mix 0.25 ml Vit 1 and 0.75 ml Vit2