# JBScreen Classic 9 (Alcohol/Salt based)

The JBScreen Crystal Screening Kits 1-10 cover 240 of the most prominent buffers for protein crystallization. Their compositions result from data mining of several thousands of crystallized proteins. JBScreen represents the statistically most successful buffers that yielded protein crystals suitable for X-ray diffraction. The JBScreen buffers are principally ordered by type and concentration of the precipitant. This allows easy extraction of all relevant information and is already a first step to a refinement: Once you get a hit, you immediately see the effects of the neighbouring conditions. Subsequent fine tuning of preliminary hits will be much more efficient. Apart from saving you the tedious pipetting, sterile packed aliquots have several other important advantages: While common bulk solutions are frequently contaminated by the time you use the first aliquot, JBScreen is alalways fresh and sterile. Evaporation of solvent (with the resulting change of the buffer) just won□t happen □you will get extremely reproducible screening results.

The kit contains the following buffers:
A1 5% iso-Propanol, 0.1 M Na HEPES pH 7.5
A2 10% iso-Propanol, 0.1 M Na Acetate pH 4.6, 0.2 M Ca Chloride
A3 10% iso-Propanol, 0.1 M Na HEPES pH 7.5, 0.2 M Na Citrate
A4 10% iso-Propanol, 0.1 M TRIS HCl pH 8.5, 0.01 M Mg Chloride
A5 12% iso-Propanol, 0.1 M TRIS HCl pH 8.5, 0.05 Na Chloride
A6 15% iso-Propanol, 0.1 M Na MES pH 6.5, 0.2 M Na Citrate
B1 15% iso-Propanol, 0.1 M Na HEPES pH 7.5, 0.2 M Na Citrate
B2 15% iso-Propanol, 0.1 M Na HEPES pH 7.5, 0.2 M Mg Chloride
B3 15% iso-Propanol, 0.1 M TRIS HCl pH 8.5, 0.2 M Ammonium Acetate
B4 20% iso-Propanol, 0.1 M Na Acetate pH 4.6, 0.2 M Ca Chloride
B5 20% iso-Propanol, 0.1 M Na HEPES pH 7.5, 0.2 M Na Citrate
B6 25% iso-Propanol, 0.1 M Na HEPES pH 7.5, 0.1 M Mg Chloride
C1 30% iso-Propanol, 0.1 M Na MES pH 6.5, 0.2 M Na Citrate
C2 30% iso-Propanol, 0.1 M Na HEPES pH 7.5, 0.2 M Mg Chloride
C3 30% iso-Propanol, 0.1 M TRIS HCl pH 8.5, 0.2 M Ammonium Acetate
C4 25% tert.-Butanol, 0.1 M TRIS HCl pH 8.5, 0.1 M Ca Chloride
C5 35% tert.-Butanol, 0.1 M Na Citrate pH 5.6
C6 0.2 M Ammonium Dihydrogen Phosphate
D1 0.2 M K,Na Tartrate
D2 0.2 M Mg Acetate
D3 0.4 M Ammonium Dihydrogen Phosphate

D4 0.4 M K,Na Tartrate
D5 0.4 M K,Na Tartrate, 0.1 M TRIS HCl pH 8.5
D6 0.5 M Ammonium Dihydrogen Phosphate, 0.2 M Na Citrate

**Buffer preparation:**
Chemicals used were of MicroSelect grade for Molecular Biology.
Buffers were prepared as 1 M stock solutions. The pH was adjusted with HCl (Imidazole, TRIS), NaOH (Bicine, CHES, HEPES, MES), Citric Acid (Citrate) or Acetic Acid (Acetate) (23°C; Fisher pH electrode).
Percentages given are always w/v values (for solids as well as for liquids).
The final volume was adjusted with >18 MOhm water.
Solutions were filtered (0.2 µm) and filled in ampoules/tubes under sterile conditions.

## Ordering Information

Order Online »

| | |
|---|---|
| **JBS-CS-109L** | 1Kit |

## Manuals, SDS & CofA

View Online »

## Handling & Storage

**Long Term Storage** +4°C

**Shipping** Ambient Temperature

## Regulatory Status RUO - Research Use Only

## Product Details

**Contents**

**JBS-CS-109**: 24 buffers, delivered in 0.7ml sterile aliquots, with 10 units per kit. Alternatively, the JBScreen Mixed kit contains one single shot of all the 240 buffers. The 6×4 format of the units allows a convenient 1:1 setup for 24 (or multiples thereof) well plates. It's easy to use □every ampoule and the unit's package has a □coordinate system□ (A1□A6 … D1□D6), thus almost certainly eliminating errors.
**JBS-CS-109L**: All 24 solution of the JBScreen system in sterile 10ml quantities (Bulk).
**JBS-CS-109S**: 24×10 sterile aliquots of the JBScreen buffers, supplied as 10-ampoule blocks, with 0.7ml per ampoule (Refill).

**Technical Info / Product Notes**

For the Original Manufacturer's data sheet please click here.

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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