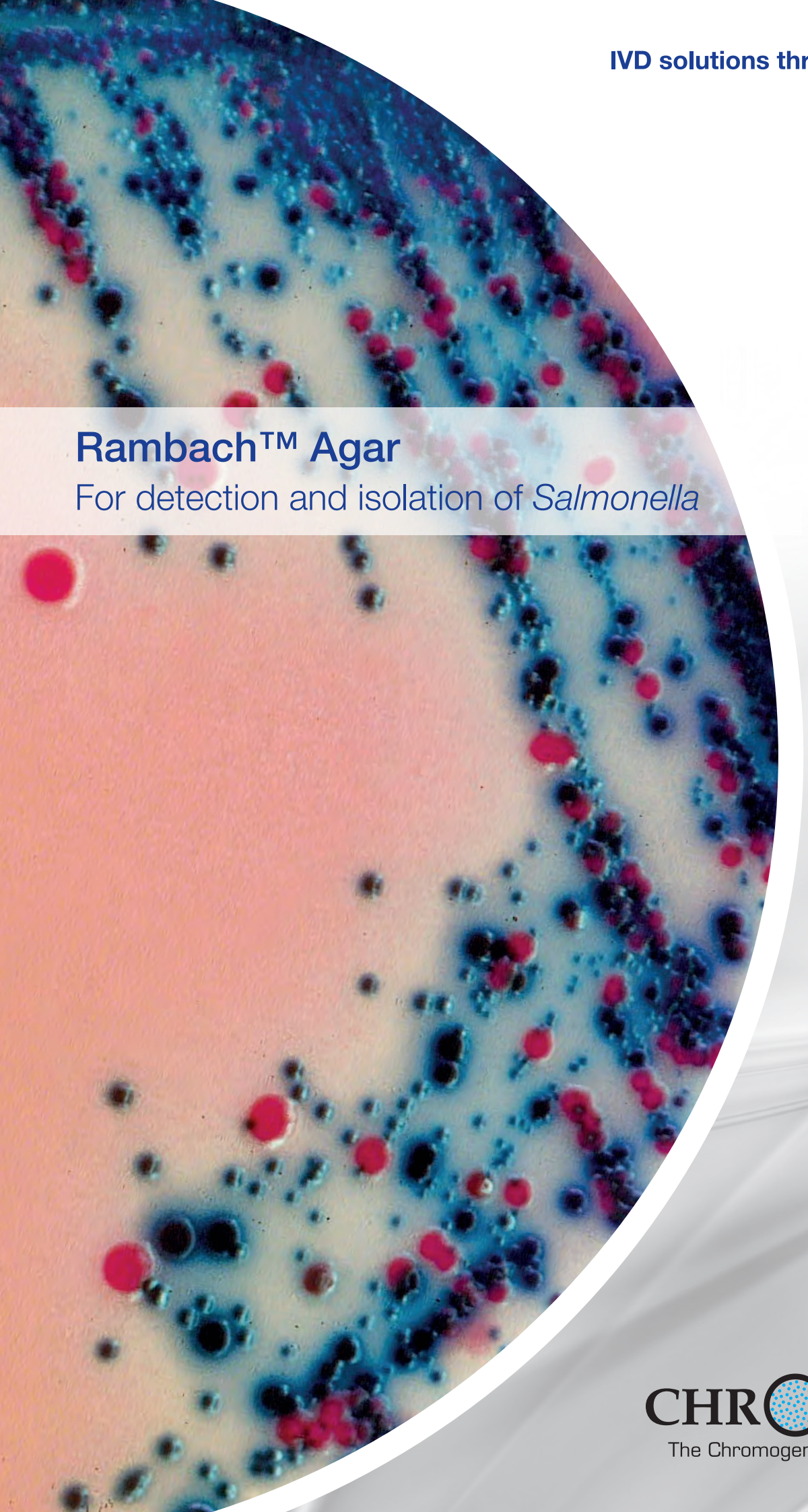
IVD solutions through partnership

Mast Group



Rambach™ Agar

For detection and isolation of *Salmonella*

CHROMagar™

The Chromogenic Media Pioneer

Rambach™ Agar

For detection and isolation of *Salmonella* species in food samples

Background

Despite its early discovery in the 1880's, *Salmonella* remains a major worldwide pathogen and one of the most common causes of food-borne infections. For instance, in the US, *Salmonella* has an incidence rate of 16.2 cases per 100,000 (CDC estimation, 2008).
Mainly due to contamination in the food chain and/or during food-production processes, *Salmonella* commonly induces enteric illness whose major symptoms are abdominal cramps, diarrhea, nausea, vomiting. More severe cases, for instance typhoid cases or infections in immuno-depressed patients, can lead to body dehydration with renal failure or bacteraemia. This underlines the importance of a continuous control of *Salmonella* along the entire food production chain. Large scale testing is only possible with efficient detection tools.

Medium Performance

1 **Reliable**
The first commercially available (1989) chromogenic medium for *Salmonella*, is still successful today, thanks to its performance. It can be also used with clinical specimens.

2 **High specficity / less workload**
The conventional media for the detection of *Salmonella* by H2S character has very poor specificity, creating an abundance of false positives (*Citrobacter, Proteus*, etc.) among the rare real positive *Salmonella*. The workload for unnecessary examination of suspect colonies is so high that the real positive Salmonella colonies might often be missed in routine testing. Because of their poor specificity, conventional media require tedious examination of at least 10 colonies per suspected sample. On the contrary, RambachTM Agar eliminates most of those false positives and allows technicians to focus on the real contaminated samples.

3 **Very high sensitivity**

Salmonella → 93,9%*

*Sensitivity from scientific study: Gruenewald, R. et al. 1991. Use of Rambach Propylene Glycol Containing Agar for Identification of Salmonella spp. J.C.M. 29: 2354-2356.

3 **Intense red colouration**
for easy reading, compared to other chromogenic media.

3 **Fast results**
particularly useful in case of a sudden, dangerous outbreak of *Salmonella* food poisoning.

Plate Reading

- *Salmonella*
→ red
- Many coliforms
→ blue, violet
- *Proteus*, etc.
→ colourless

Medium Description

Powder Base	Total ..... 30.7 g/L Opaque agar ..... 20.0 Peptones and yeast extract..... 8.0 Chromogenic and selective mix ..... 2.7 Storage at 15/30 °C - pH: 7.1 +/- 0.2 Shelf Life .....3 years
+ **Supplement** (included)	Propylene glycol (Liquid form) ..... 10 mL/L Storage at 15/30 °C Shelf Life ..... 10 years

Usual Samples	Food and Environmental samples
Procedure	Direct streaking or after an appropriate enrichment step of the sample. Incubation at 37 °C for 24h. Aerobic condition.
Scientific Publications on this product: available on www.CHROMagar.com Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com	

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Ordering Information

Product	Order Code
Rambach™ Agar, 5 liter	15RR702