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## ArC™ Amine Reactive Compensation Bead Kit (for use with LIVE/DEAD™ Fixable dead cell stain kits)

ArC™ Amine Reactive Compensation Bead Kit is a bead-based compensation tool specifically optimized for use with LIVE/DEAD™ Fixable dead cell stain kits. [Read more](#)

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Catalog Number	Description	Quantity
A10346	ArC™ Amine Reactive Compensation Bead Kit, 1 Kit, 100 rxns, 6µm Diameter, 6µm Bead Diameter, Fluorescent Detection Method, Flow Cytometry Compensation Beads Calibration Type, Surface Stain Configuration, Any lasers (UV to 633/635) Flow Cytomet	1 Kit
A10628	ArC™ Amine Reactive Compensation Bead Kit, 1 Kit, 25 Tests rxns, 6µm Diameter, 6µm Bead Diameter, Fluorescent Detection Method, Flow Cytometry Compensation Beads Calibration Type, Surface Stain Configuration, Any lasers (UV to 633/635) Flow Cy	1 Kit

**Catalog number** A10346

**Price (EUR) / 1 kit**  
 75,00

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<b>Description:</b>	ArC™ Amine Reactive Compensation Bead Kit, 1 Kit, 100 rxns, 6µm Diameter, 6µm Bead Diameter, Fluorescent Detection Method, Flow Cytometry Compensation Beads Calibration Type, Surface Stain Configuration, Any lasers (UV to 633/635) Flow Cytomet
<b>Quantity:</b>	1 Kit

**Product Overview**

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ArC™ Amine Reactive Compensation Bead Kit is a bead-based compensation tool specifically optimized for use with LIVE/DEAD™ Fixable dead cell stain kits.

- Ready-to-use control
- Eliminates the hassle of heat-treating cells as a control, saving precious sample
- Enables accurate and consistent results

View a [selection guide for all fixable viability dyes for flow cytometry](#).

**Ready-to-use control**

Unlike other methods that require sample preparation to make compensation controls using cellular material, the ArC Amine Reactive Compensation Bead Kit is ready to use out of the dropper bottle. The kit includes two types of specially modified polystyrene microspheres that have been optimized to react with the amine-reactive dye in the LIVE/DEAD Fixable dead cell stain kits. The ArC reactive beads (Component A) bind any of the amine-reactive dyes and provide a positive signal; the ArC negative beads (Component B) have no reactivity and provide a negative compensation control. This ready-to-use product preserves the original sample material for experiments; precious sample is not used for the creation of compensation controls.

**Accurate and consistent results**

Unlike biological controls, which can have variable expression levels depending upon disease or development state, the Arc beads provide a bright, consistent signal (see figure below). Consistency in the staining pattern of compensation controls is important for obtaining the right compensation value. If the signal varies with the control material used, the compensation value can be affected, leading to erroneous results.

**How it works**

One drop of beads is added to a test tube containing LIVE/DEAD Fixable dead cell stain. After incubation with amine-reactive dye, the beads are washed in staining buffer, a drop of negative control beads is added (if required), and the beads are resuspended and analyzed by flow cytometry. The two components provide a distinct positive bead that is at least 50-fold brighter than the negative beads, which can be used to set compensation.

**Other compensation products**

Besides the ArC Amine Reactive Compensation Beads, AbC™ Anti-Mouse Bead Kit is also available for capture of mouse anti-human antibodies, as well as the AbC™ Anti-Rat/Hamster Bead Kit for capture of rat anti-mouse or hamster anti-mouse antibodies.

For Research Use Only. Not for use in diagnostic procedures.

**Specifications**

<b>Description</b>	ArC™ Amine Reactive Compensation Bead Kit, 1 Kit, 100 rxns, 6µm Diameter, 6µm Bead Diameter, Fluorescent Detection Method, Flow Cytometry Compensation Beads Calibration Type, Surface Stain Configuration, Any lasers (UV to 633/635) Flow Cytomet
<b>Detection Method</b>	Fluorescence

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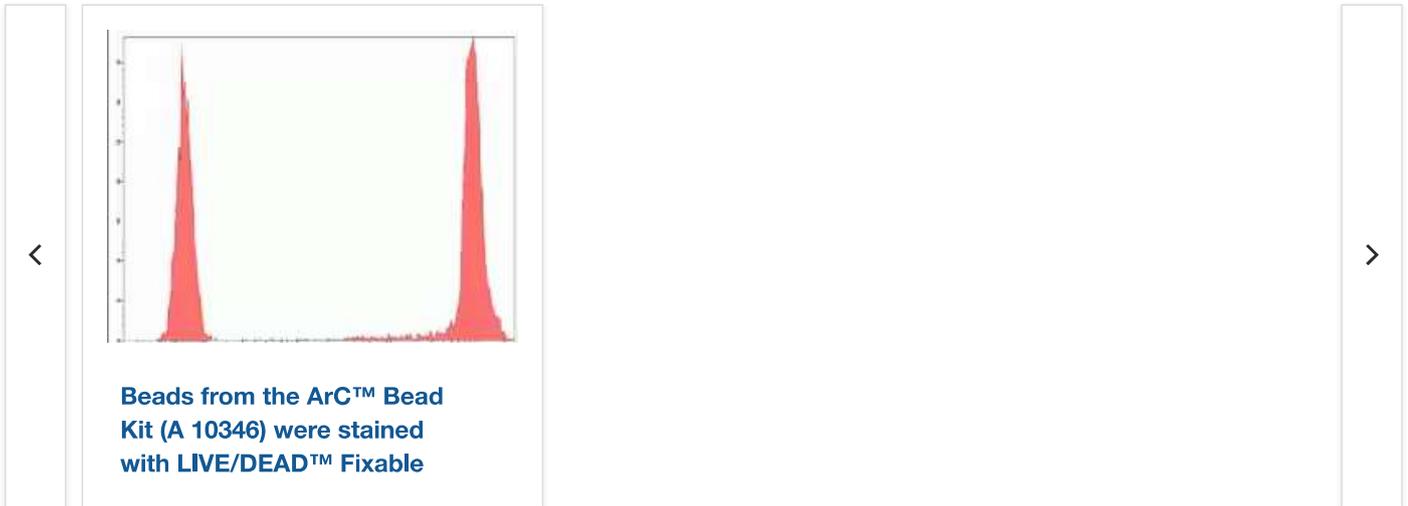
<b>For Use With (Equipment)</b>	Flow Cytometer
<b>Format</b>	Tube
<b>No. of Tests</b>	100
<b>Quantity</b>	1 Kit
<b>Shipping Condition</b>	Room Temperature
<b>Stain Configuration</b>	Surface
<b>Product Line</b>	CompenFlow™, Molecular Probes™
<b>Product Type</b>	Compensation Beads
<b>Unit Size</b>	1 kit

### Contents & Storage

Contains 1 vial ArC™ amine reactive beads and 1 vial of negative beads.

- Store at 2°C to 8°C
- 

## Figures



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- [Poster: PD-L1 expression in NSCLC MDSCs and its potential use as a biomarker to determine treatment response through dimensionality reduction of flow cytometric data](#)

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### Manuals



[User Guide: ArC Amine Reactive Compensation Bead Kit](#)

### Protocols

[AbC™ Anti-Rat/Hamster Bead Kit](#)

### Molecular Probes® Handbook

[Flow Cytometry Reference Standards—Section 23.2](#)

## Frequently asked questions (FAQs)

Besides the Live/Dead Fixable Dead Cell stain, may I conjugate other amine-reactive dyes to the beads in the ArC Amine Reactive Compensation Bead Kit?

My ArC Amine Reactive Compensation beads are excessively clumped and cannot be resuspended by vortexing or sonication. What may have caused this?

How do I make compensation controls for antibodies?

I am performing flow cytometry. My compensation matrix has values over 100. That's not possible is it?

What kind of controls do I need for flow cytometry?

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#### Citations & References

#### Abstract

[IL-1 family members IL-18 and IL-33 upregulate the inflammatory potential of differentiated human Th1 and Th2 cultures.](#)

**Authors:** Blom L, Poulsen LK,

**Journal:** J Immunol

**PubMed ID:** 23028054

'The IL-1 family members IL-1β, IL-18, and IL-33 are potent cytokines in relationship to amplifying the CD4(+) T cell cytokine production. To evaluate their impact on in vitro-differentiated human Th1 and Th2 cultures, such cultures were established from naive T cells, purified from healthy blood donors, and reactivated in the ... [More](#)

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**Journal:** Methods Mol Biol  
**PubMed ID:** 22933067

antibody responses, as well as antibody-independent effector functions can be ascribed to distinct subpopulations (subsets) of circulating B cells. Characterizing ... [More](#)

[Evaluation of pneumonia virus of mice as a possible human pathogen.](#)

**Authors:** Brock LG, Karron RA, Kreml CD, Collins PL, Buchholz UJ,  
**Journal:** J Virol  
**PubMed ID:** 22438539

Pneumonia virus of mice (PVM), a relative of human respiratory syncytial virus (RSV), causes respiratory disease in mice. There is serologic evidence suggesting widespread exposure of humans to PVM. To investigate replication in primates, African green monkeys (AGM) and rhesus macaques (n = 4) were inoculated with PVM by the ... [More](#)

[A novel aldehyde dehydrogenase-3 activator leads to adult salivary stem cell enrichment in vivo.](#)

**Authors:** Banh A, Xiao N, Cao H, Chen CH, Kuo P, Krakow T, Bavan B, Khong B, Yao M, Ha C, Kaplan MJ, Sirjani D, Jensen K, Kong CS, Mochly-Rosen D, Koong AC, Le QT,  
**Journal:** Clin Cancer Res  
**PubMed ID:** 21998334

To assess aldehyde dehydrogenase (ALDH) expression in adult human and murine submandibular gland (SMG) stem cells and to determine the effect of ALDH3 activation in SMG stem cell enrichment. Adult human and murine SMG stem cells were selected by cell surface markers (CD34 for human and c-Kit for mouse) and ... [More](#)

[Targeting GLUT1 and the Warburg effect in renal cell carcinoma by chemical synthetic lethality.](#)

**Authors:** Chan DA, Sutphin PD, Nguyen P, Turcotte S, Lai EW, Banh A, Reynolds GE, Chi JT, Wu J, Solow-Cordero DE, Bonnet M, Flanagan JU, Bouley DM, Graves EE, Denny WA, Hay MP, Giaccia AJ,  
**Journal:** Sci Transl Med  
**PubMed ID:** 21813754

Identifying new targeted therapies that kill tumor cells while sparing normal tissue is a major challenge of cancer research. Using a high-throughput chemical synthetic lethal screen, we sought to identify compounds that exploit the loss of the von Hippel-Lindau (VHL) tumor suppressor gene, which occurs in about 80% of renal ... [More](#)

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	<p><b>LIVE/DEAD™ Fixable Near-IR Dead Cell Stain...</b></p> <p>Catalog number: L34975</p> <p><b>196,00</b> / 80 assays</p> <p><a href="#">Add to cart</a></p>	>
	<p><b>LIVE/D Violet I</b></p> <p>Catalog</p> <p><b>196,00</b></p> <p><a href="#">Add to cart</a></p>	

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