Table 2
Comparison of the effects of different methods of preparation on the fluorescence intensity (Flu. int.), pattern of fluorescent labeling of stress fiber (SF) and morphological preservation of microextensions (ME) by TRITC-phalloidin (phalloidin) and monoclonal anti-α-actin antibody (mAb-α-actin) and pattern of tubulin staining by β-tubulin antibody (mAb-β-tubulin). Morphological preservation of the cells attached on coverslips (Morph.) and of microextensions (ME) were also examined by SEM before and after treatment for fluorescence microscopy. The range is from excellent (+++++) to very poor (0).

		Phalloidin			mAb-α-actin			mAb-β-tubulin		SEM(before)		SEM(after)	
Method		Flu. int.	SF	ME	Flu. int.	SF	ME	Flu. int.	pattern	Morph.	ME	Morph.	ME
MeOH		+	+	+	+++++	+++	+++	+++	++	++++	+++++	++++	+++
EtOH		+++	+++	++	+	0	0	+++	++++	++++	+++++	++++	++++
Acetone		++++	+++++	+++	++++	++++	++++	++++	++++	+++++	+++++	+++++	++++
5% or 10% TCA		+	0	0	+++++	++++	++++	+++	+++	+++++	+++++	+++++	++++
5%Sulfosalicylic acid		+	0	0	+	0	0	++	0	+++++	+++++	+++++	++++
Carnoy		+	0	0	++	+	+	+++	+	+++++	++++	+++++	+++
Bouin		+	0	0	++	+	+	+++++	++++	+++++	+++++	+++++	++++
Fixative	Extractor												
3.5% FA/PBS	acetone	++++	++++	+++	++	+	+	++++	++++	+++++	+++++	+++++	++++
3.7% FA/PBS	0.1% Triton X-100/PBS	++++	+++	+	0	0	0	++	+	++	+	+	+
3.7% FA/PBS	0.2% Triton X-100/PBS	++++	++++	+++	0	0	0	+++	+++	++++	+++	+++	+++
3.7% FA/PBS	0.5% Triton X-100/PBS	++++	+++	+	0	0	0	++	+	++	+	+	+
3.7% FA/PBS	1% Triton X-100/PBS	++++	+++	+	0	0	0	++	+	++	+	+	+
3.7% FA/PBS(+)	0.2% Triton X-100/PBS	+++++	++++	+++	0	0	0	++	+	+++++	+++	++++	+++
4% PFA/PBS	-	+++++	++++	+++	0	0	0	0	0	++	+++	++	+++
4% PFA+1%GA/PBS	0.2% TX100/PBS	+++++	++++	+++++	+	0	0	+++	+++	+++++	+++++	+++++	+++++
4% PFA/PBS(+)	0.1% TX100/PBS	+++++	++++	+++	+	0	0	+++	+++	+++	++	++	++
4% PFA/PBS	0.2% TX100/PBS	+++++	++++	++	+	0	0	+++	++	++	++	+	++
4% PFA/HBSS	acetone	++++	++++	+++	0	0	0	++++	++++	+++	+++	+++	+++
4% PFA/PBS	0.2% TX100+3.6%PFA/PBS, acet	++	++	+	+++++	+++	+++	++++	++++	+++++	+++++	+++++	+++++
4% PFA+0.05% GA/PB	-	+++++	++++	+++	0	0	0	+++	++	++	+++	++	+++
PLP	1% saponin+3% BSA/PBS	+++++	++++	++	0	0	0	++	++	++++	+++	++++	+++
LP	1% saponin+3% BSA/PBS	++++	++++	++	0	0	0	++	++	++++	+++	++++	+++
-	0.2% TX100/MTSB+2.5mM GTP	+++++	+++++	+++++	0	0	0	++++	++++	+++++	+++++	+++++	+++++
(3%FA+0.05%GA+0.05%TX100/MTPB)		+++++	++++	+++	0	0	0	+++++	+++++	+++++	++++	+++++	++++
(3.7% Form/PEM/0.2% TX100), MeOH		0	0	0	+++++	++++	++++	+++++	+++++	+++++	++++	+++++	++++
DSP/HBSS	DSP/Tsb	++++	+++++	++++	+	0	0	++++	+++++	+++++	+++++	+++++	+++++
4% PFA/PBS	0.1% saponin+5% serum/PBS	++++	+++	+++	0	0	0	++++	++	+++++	++++	+++++	++++
4% PFA/PBS	0.5% NP-40/PBS	++++	++++	++++	0	0	0	+++	+++	++++	++++	++++	++++
4% PFA+sucrose/CB	0.5% TX100/CB	++++	++++	++++	0	0	0	+++	++++	+++	+++	+++	+++
(MeOH, 3.7% FA, acetone)		0	0	0	+++++	+++	++++	+++	++++	+++++	+++++	+++++	++++
(0.5% DOTMAC+1% PFA/PBS(+))		+++	+++	+++	++++	++++	+++++	++	++	+++++	+++++	+++++	+++++