CASY | FROM A TO Y: A LIST OF MEASURED CELLS

Is CASY capable of measuring the cells you are interested in?

CASY measures and counts particles in the size from 0.7 µm up to 120 µm.
Three capillaries are used to achieve this huge size range:

- 45 µm capillary for a measuring range of 0.7 – 30 µm (bacteria, small fungi, debris particles…)
- 60 µm capillary for a measuring range of 1.2 – 40 µm (yeast, algae, plankton, sperms, polls…)
- 150 µm capillary for a measuring range of 3.2 – 120 µm (most types of mammalian cells, most types of cell lines, all types of primary cells, big plankton, protozoa…)

A Large number of particles have already been measured with CASY

In order to give you some guidance, this catalogue lists cell types and particles already successfully measured with any CASY – no matter whether it's a TT or a TTC. You might find the organism you are interested in by browsing through the data – but, as this list by far from being complete, you might also find only some quite similar specimen. However, a good starting point for you to set up your specific test samples for CASY measurement.

I have found the organism I'm interested in – what now?

The list on the following pages contains existing setup files from CASY TT and TTC measured by our customers. For comparison purposes, you can request the setup file for a specific sample from us, but please understand that you must not use this file for measurement of your own samples! The listed files are meant to give you an impression of the settings. However, for creating your specific setup, perform a life/dead measurement using CASYblue, as it is described in the video manual on cellcounting.de or in the Quick-Manual for CASY TT and CASY TTC. To request a setup file, please send an email to casy@ols-bio.de indicating the serial-number of your instrument and the setup file you request.

This database should grow – you are invited to participate

If you are measuring and counting specimen not listed here, we are happy to receive a setup file! Please send it to casy@ols-bio.de to be included in a growing catalogue!

OMNI Life Science

CASY TT | SPECIMEN MEASURED – SETUP FILES

TT - algae / protozoa
Dinobryon - sweet water; dying in 0.9%NaCl
Mallomonas - sweet water
Ochromonas - sweet water
Paramecium
Selenastrum capricornum

TT - bacteria
Synechococcus PCC7942-10
Synechococcus PCC7942-3

TT - blood cells
blood - human - erythrocytes
blood - human - granulocytes
blood - human - macrophage
blood - human - T-lymphocytes
Blut_Lyse
Platelets

TT - cell lines
25-9 - mouse-mouse - hybridoma; lymphoblast
3T3-NIH - mouse
3T3-NIH - mouse, swiss albino - embryo - fibroblast
A-9 -mouse-connectice tissue
A2780
A549 - human - lung; carcinoma-1
A549 - human - lung; carcinoma-2
AG8
ARPE-19 - human - eye, retina; pigmented epithelium
BT-474 - human - mammary gland; ductal carcinoma
C3H-clone8-mouse-embryo fibroblast
Caco-2 - human - colon; adenocarcinoma-1
Caco-2 - human - colon; adenocarcinoma-2
CEpan3b - human - pancreas; stem cells
CHO - clone2
CHO - clone3
CHO - hamster, chinese - ovary cells; transfected
CHO differend clones
CHO transfected with IgG
CHO-K1
COS-7 - monkey, african green - kidney fibroblast
CX-2 - human - colon; adenocarcinoma
Daoy neuroblastoma - human
DU145 - human - brain; carcinoma
HaCaT humane Keratinozyten
HCT-116 - human - colon; colorectal carcinoma
HEK 293 - human - embryonic kidney
HEK 293 - human - kidney; embryonic
HEK 293 - human - kidney; fetal
HEK 293F
HEK293T - human - kidney; highly transfective
HeLa - human - cervix; adenocarcinoma
HeLa - human - cervix; adenocarcinoma
HeLa - human - cervix; adenocarcinoma
HeLa-S3 - human - cervix; adenocarcinoma
Hep-3B- human - liver; hepatocellular carcinoma
HepG2 - human - liver; hepatocellular carcinoma-1
HepG2 - human - liver; hepatocellular carcinoma-2
HKB11
HL-60 - human - promyelocytic leukemia
HL60
HT-29 - human - colon; adenocarcinoma
HUVEC - human - vein; vascular endothelium

CASY TT | SPECIMEN MEASURED – SETUP FILES

IMR-90 - human - lung; fibroblast
Ishikawa - human - endometrium; carcinoma
JURKAT - human - T cell; leukemia
JURKAT - human - T lymphocyte; acute T cell leukemia
JURKAT - human - T lymphocyte; transgenic
K-562 - human - pleural effusion; chronic myelogenous leukemia
K562
KC - mouse-mouse - hybridoma; lymphoblast
L5178Y - mouse - lymphoma
L5178Y - mouse - lymphoma
L5178Y TK- mouse - lymphoma (clone 3.7.2C)
LAZ - human - B lymphocyte
LCL 8664 - monkey,Rhesus - B-lymphocyte; lymphoma
LN-229 - human - brain; glioblastoma
LNcaP - human - lymph node; prostate carcinoma
M1 - human - fibroblast
McA-3D - rat - liver; hepatoma
MCF7 - human - adenocarcinoma
MCF7 - human-adenocarcinoma
MCF7
MDBK - cow kidney, cell line
MLE-12 - mouse, transgenic - lung; epithelial
PER c6
PLC-BRF-5 - human - liver; Alexander cells; hepatoma
Raji - human - B lymphocyte; Burkitts lymphoma
RAW264-7 - mouse - monocyte; macrophage; AMLV-induced tumor
RKO-human-colon; carcinoma
S2 - insect - drosophila; embryo cells
SCLC-24H - human - lung; small cell carcinoma
SH-SY5Y - human - bone marrow; (matastasis)
SH-SY5Y - human - brain; neuroblastoma
SK-HEP-1 - human - liver; adenocarcinoma
SL-29 - chicken - embryo; fibroblast
SW480 - human - colon; adenocarcinoma
THP-1 - human - acute monocytic leukemia
TK6 humane Lymphoblasten-2
TK6 humane Lymphoblasten
U-266 - human - myeloma
U-2OS - human - bone; osteosarcoma
U-373 - human - astrocytes
U-937 - human - macrophage; histiocytic lymphoma
U937- (Budapest)

TT - parasites
Trypanosoma brucei

TT - primary cells
AF - pig, primary cells
CCE mouse stem cells-- MEF
CCE-mouse stem cell and MEF feeder cells
Embryonic stem cells - human, highly aggregated
Hepatocytes - rat - after perfusion
MSC - human - mesenchymal stromal cells, placenta, 2D
MSC - human - mesenchymal stromal cells, placenta, 3D
prim - human - chondrocytes
prim - human - dentritic cells
prim - human - fibloblast-skin
prim - human - granulosa -
prim - human - keratinocytes
prim - human - lung-fibroblast
prim - human - lymphocytes
prim - human - PBMC
prim - human - PBMC
prim - human - peridontal fibroblast
prim - human - skin, foreskin-fibroblast-1
prim - human - skin, foreskin-fibroblast-2
prim - mouse - bone marrow
prim - mouse - embryonal stem cells-MPI-FR
prim - mouse - fibroblast; perodontal ligament
prim - mouse - MEF embryonal fibroblast
prim - mouse - MEF embryonal fibroblast; transfected
prim - mouse - spleen, MNC
prim - mouse - spleen-isolated
prim - mouse - spleen
prim - mouse - thymocytes
T cells - mouse -in lymphoma

TT - yeast
Yeast - Candida albicans
Yeast - S cerevisiae Montpellier
Yeast - Saccharomyces cerevisiae
Yeast - Schizosaccharomyces pombe

CASY TTC | SPECIMEN MEASURED – SETUP FILES

TTC - Algae / Plankton / Protozoa

Alexandrium ostenfeldii - dino flagelate
Blue algae - Cyano bacter synechocystis
Cheatoceros calcitrans - fresh culture
Cheatoceros calcitrans - old culture
Chlorella vulgaris - fresh culture
Chlorella vulgaris - old culture
Desmodesmus
Dictyostelium-viable
Dino flagelates - fresh culture
Dino flagelates - old culture
Euglena gracilis - fixed in EtOH
Euglena gracilis
Gonyaulax polyedra
Isochrysis galbana (Marine diatom)
Ostreococcus tauri
Phaeodactylum tricornutum
Protozoa Dd - cultured in flask
Protozoa Dd - fixed in EtOH
Protozoa Tp - bioreactor - fast moving
Protozoa Tp - bioreactor - immobilized
Protozoa Tp - dead - fixed in EtOH
Rhodomonas - mix viable-dead
Rhodomonas - viable
Scenedesmus subspicatus-01
Scenedesmus subspicatus-02
Tetracystis
Tetrahymena thermophila - log phase
Tetrahymena thermophila - stat phase

TTC - Bacteria

Acinetobacter baylyi DSM 14961
Alcaligenes faecalis DSM 13975
Aspergillus niger ATCC 6275
Bacillus subtilis
Bordetella petrii DSM 12804
Chrysosporium merdarium DSM 62115
Comamonas acidovorans
Comamonas testosteronii DSM 1455
E.coli - (1) - count
E.coli - (2) - biovolume
E.coli - K12 - wild type
E.coli viable
E.coli-BL21
E.coli-SP6 - defect mutant
Edwarsiella hoshinae DSM 13771
Enterobacter cloacae DSM 16657
Erwinia aphidicola DSM 19347
Escherichia blattae DSM 4481
Escherichia coli ATCC 11229
Escherichia coli
Klebsiella pneumoniae
Kluyvera georgiana DSM 9409
Lactobacillus - inaktivated
Lactobacillus -5h in complete medium
Lactobacillus
Malikia spinosa
Neisseria canis DSM 18000
Pasteurella aerogenes DSM 10153
Providenzia heimbachae DSM 3591

CASY TTC | SPECIMEN MEASURED – SETUP FILES

Prteus myxofaciens DSM 4482
Pseudomonas aeruginosa
Pseudomonas chloraphis subsp chloraphis DSM 50083
Pseudomonas fluorescens DSM 6147
Pseudomonas monteilii DSM 14164
Pseudomonas mosselii DSM 17497
Pseudomonas pseudoalcaligenes DSM 7521
Pseudomonas putida
Pseudomonas stutzerii
Rahnella aquatilis DSM 4594
Salmonella thyphimurium
Serratia marcescens
Staphylococcus aureus
Staphylococcus capitis DSM 6180
Staphylococcus carnosus DSM 11676
Staphylococcus epidermidis
Staphylococcus gallinarium DSM 206010
Staphylococcus saprophyticus DSM 18669
Staphylococcus simulans DSM 20322
Staphylococcus xylosus DSM 6179
Trichophyton mentagrophytes ATCC9533
Yersina bercovieri DSM 18528

TTC - Blood Cells
Control Blood - human - after lysis
Whole blood - dog-02
Whole blood - dog-lysed-03
Whole blood - dog-lysed
Whole blood - dog
B-lymphocytes - chicken
Cord blood - human
Granulocytes - basophilic – human
Granulocytes - eosinophilic - human
Macrophages - human
Mono nuclear cells MNC - human
Monocytes - human
Neutrocytes - human
Erythocytes - chicken - early stage of differentiation
Erythocytes - human - membrane ghosts
Whole blood, RBC – bovine
Whole blood, RBC - human - high MCV
Whole blood, RBC - human - low MCV
Whole blood, RBC - human - normal MCV
Whole blood, RBC - pig
Whole blood, RBC - sheep
PLT - human - active
PLT - human - mixture of inactive and active
Platelets
Red Blood Cells
White Blood Cells

TTC - Blood parasites
Trypanosoma brucei
Trypanosoma

TTC – Cell lines
293 (HEK) - human - embryonal kidney - mutant -E-cadherin
293 (HEK) - human - embryonal kidney - wild type
293 (HEK) - human - embryonal kidney-01-volume
293 (HEK) - human - embryonal kidney-01
293 (HEK) - human - embryonal kidney-02-volume
293 (HEK) - human - embryonal kidney-02
3T3 - mouse, swiss albino - fibroblast
3T3-NIH - mouse, swiss albino - fibroblast - in EtOH
3T3-NIH - mouse, swiss albino - fibroblast
468 - mouse-mouse hybridoma - lymphoblast-01
468 - mouse-mouse hybridoma - lymphoblast-02
529 - mouse-mouse hybridoma - lymphoblast-01
529 - mouse-mouse hybridoma - lymphoblast-02
941 - mouse-mouse hybridoma - lymphoblast
A-375 - human - skin, malignant melanoma
A-431 - human - epidermoid carcinoma
A549 - human - lung carcinoma - fixed in CASYblue
A549 - human - lung carcinoma - mixture
A549 - human - lung carcinoma – transfected
A549 - human - lung carcinoma
A9 - mouse - subcutaneous connective tissue-01
A9 - mouse - subcutaneous connective tissue-02
B9 - mouse - hybridoma - fixed in CASYblue
B9 - mouse - hybridoma - fixed in EtOH
B9 - mouse - hybridoma - viable-dead
B9 - mouse - hybridoma – viable
B9 - mouse - hybridoma 01
B9 - mouse - hybridoma 02
BHK-21 - hamster, syrian - kidney

CASY TTC | SPECIMEN MEASURED – SETUP FILES

BL-3 - bovine - lymphosarcoma - 01
BL-3 - bovine - lymphosarcoma - 02
BSC-1 - monkey, african green - kidney
CCRF-CEM - human - T cell leukemia
CHO - hamster, chinese - ovary cells - diploid
CHO - hamster, chinese - ovary cells - serum free medium
CHO - hamster, chinese - ovary cells - transfected
CHO-K1 - hamster, chinese - ovary cells
CHSE-214 - fish - Chinook salmon embryo cells-01
CHSE-214 - fish - Chinook salmon embryo cells-02
COS-7 - monkey, african green - kidney; fibroblast – dead
COS-7 - monkey, african green - kidney; fibroblast - viable
CTLL-2 - mouse - T-lymphocyte; cytotoxic - dead
CTLL-2 - mouse - T-lymphocyte; cytotoxic - viable
EOL-1 - human - acute myeloid leukemia
FL - human - HeLa contaminant
GOS-3 - human - astrocytoma; oligodendroglioma -fixed in CASYblue
GOS-3 - human - astrocytoma; oligodendroglioma -viable-dead
GOS-3 - human - astrocytoma; oligodendroglioma
H4 - human - brain; neuroglioma - dead
H4 - human - brain; neuroglioma - viable
HeLa - human - cervix carcinoma
Hep 3B - human - liver; hepatocellular carcinoma
HEP-G2 - human - liver; hepatocellular carcinoma-fixed in CASYblue
HEP-G2 - human - liver; hepatocellular carcinoma-viable-dead
HEP-G2 - human - liver; hepatocellular carcinoma
Hfob - human - foetal osteoblast
HIGH 5 - insect - Trichoplusia ni -01
HIGH 5 - insect - Trichoplusia ni -02 nuclei
HL-60 - human - acute myeloid leukemia
HT-29 - human - colon adenocarcinoma -fixed in CASYblue
HT-29 - human - colon adenocarcinoma -viable-dead
HT-29 - human - colon adenocarcinoma
IMR-90 - human, caucasian - foetal lung fibroblast
J82 - human - bladder carcinoma
JURKAT - human - T cell leukemia-01
JURKAT - human - T cell leukemia-02
K-562 - human - chronic myeloid leukemia
KC - insect - Drosophila embryo -01
KC - insect - Drosophila embryo -02 nuclei
L-1210 - mouse - lymphocytic leukemia
L-929 - mouse - connective tissue fibroblast-01
L-929 - mouse - connective tissue fibroblast-02
L5178Y - mouse - lymphoma
LNCaP - human - lymph node carcinoma
M-NFS-60 - mouse - peripheral blood, virus induced myeloic leukemia
MDA-MB486 - human - pleural effusion; adenocarcinoma - dead
MDA-MB486 - human - pleural effusion; adenocarcinoma - viable-dead
MDA-MB486 - human - pleural effusion; adenocarcinoma - viable
MDBK - bovine - kidney cells
MDCK - dog - kidney cells
MEF-1 - mouse - embryo, fibroblast
MGH - human - bladder carcinoma
MOLT-4 - human - T-cell leukemia -fixed in EtOH
MOLT-4 - human - T-cell leukemia -viable-dead
MOLT-4 - human - T-cell leukemia
MRC-5 - human - lung; fibroblast -fixed in EtOH
MRC-5 - human - lung; fibroblast -mixture
MRC-5 - human - lung; fibroblast
MTC-M - mouse - thyroid carcinoma (1) aggr
MTC-M - mouse - thyroid carcinoma (2) desintegration
NAMALVA - human - Burkitt lymphoma
P815 - mouse - mast cell; mastocytoma
PER-C6 - human - embrional retinoblast - serum free medium
PER-C6 - human - embrional retinoblast - treated with Accumax
PER-C6 - human - embrional retinoblast
RAJI - human - Burkitt lymphoma
RAW 264.7 - mouse - monocyte - viable-dead
RAW 264.7 - mouse - monocyte; macrophage; AML induced tumor
RK13 - rabbit - kidney
RPE-J - rat - eye (retina), pigmented epithelium
RT-4 - human - urinary bladder transitional cell carcinoma

CASY TTC | SPECIMEN MEASURED – SETUP FILES

RTG-2 - fish, rainbow trout - gonadal cells
SF-21 - insect - fall army worm -02 nuclei
SF-21 - insect, fall army worm -01
Sf9 - insect, fall army worm - infected, baculo virus
Sf9 - insect, fall army worm - non infected
Sf9 - insect, fall army worm -fixed in CASYblue
SiHa - human - cervix; squamous cell carcinoma
SP2-0 - mouse - myeloma - 01
SP2-0 - mouse - myeloma - 02
sp2-0-test-dead-01
sp2-0-test-viable-01
sp2-0-test-viable-dead-01
TF-1 - human - erythroleukemia
U-937 - human - histiocytic lymphoma -02
U-937 - human - histiocytic lymphoma -camtothecin induced
U-937 - human - histiocytic lymphoma -viable-dead
U-937 - human - histiocytic lymphoma -viable
U-937 - human - histiocytic lymphoma
V-79 - hamster - lung fibroblast
Vero - monkey, african green - kidney cells -fixed in EtOH
Vero - monkey, african green - kidney cells
VERO-B4 - monkey, african green - kidney cells
Y79 - human - eye (retina), retinoblastoma -viable-dead
Y79 - human - eye (retina), retinoblastoma
YB2-0 - rat-rat - hybridoma -fixed in EtOH
YB2-0 - rat-rat - hybridoma -viable-dead
YB2-0 - rat-rat - hybridoma
AG8 dead
AG8 viable
C168J - live cells
C168J - fixed in CASYblue
HUH7 - viable-dead
HUH7 - viable
LADA - viable
MHH - dead-viable
MHH - fixed in EtOH
MHH - viable
NS-1 - viable
NSO - viable
S180 - dead-viable
S180 – dead
S180 – viable

TTC - Fungi / Spores
Coniothyrium minitans
Puccinia coronata

TTC - Primary Cells
Adipocytes - human
Bone marrow - human - fixed in EtOH
Bone marrow - human - viable cells
Chondrocytes - human - 1. passage
Chondrocytes - human - 3. passage
Chondrocytes - human - fixed in EtOH
Ehrlich ascites tumor cells - mouse
Endothelial cells - mouse
Endothelial cells 01 - human - fresh isolated
Endothelial cells 02 - human - 1.passage
Fibroblasts - human - inactiv
Fibroblasts - human
Glioma cells - mouse
Hepatocytes - rat
Hyalocytes - pig
Keratinocytes - human - precursor cells
Keratinocytes – human
Keratinocytes - mouse
Lung cells - human
Lymphosarcoma cells - mouse
Osteoblasts - human
Pancreas cells - rat
PBMC human EtOH fixiert
PBMC human viable cells
PBMC- human - isolated by Ficoll-01
PBMC- human - isolated by Ficoll-02
PBMC- human - lysed by saponin
Renale proximale tubulus epithelial cells - human
Spleen cells - mouse - fixed in CASYblue
Spleen cells - mouse - freshly isolated
Spleen cells, murine - mouse
Thymocytes - mouse - freshly isolated
Thymocytes - mouse -fixed in CASYblue
Thymocytes - mouse -viable-dead
Ziliar mussel cells - human

CASY TTC | SPECIMEN MEASURED – SETUP FILES

TTC - Sperms
sperms-Boar-01
sperms-Boar-02
sperms-Boar-03
sperms-Bull-01
sperms-Bull-02
sperms-Bull-03
sperms-Human-P01-hypoton
sperms-Human-P01-isoton
sperms-Human-P02-isoton
sperms-Human-P03-filtration
sperms-Human-P03-native
sperms-Human-P04-filtration
sperms-Human-P04-native
sperms-Stallion-01
sperms-Stallion-02

TTC - Stem Cells
Blood stem cells - human
ES DN 62
ES DN72 P29
stem cells - human, cord blood - dead and live
stem cells - human, cord blood - viable

TTC - Worm Eggs
worm eggs - trichuris suis-02
worm eggs - trichuris suis

TTC - Yeast
Candida albicans
Candida glabrata
Saccharomyces cerevisiae ATCC 1333
Saccharomyces cerevisiae DSM 70449
yeast - brewery - strain a
yeast - brewery - strain b
yeast - s. cerevisiae
yeast -01

CASY | MEET THE LEGEND

Questions? Remarks? Get in Touch!

We are looking very much forward to getting in contact with you.
Let's discuss your specific application / field of research!

- **learn how CASY supports your daily laboratory cell-based work**
- **learn more about CASY models and CASY technology**
- **schedule a product demonstration**
- **request an offer**

email: casy@ols-bio.de | fon: +49-421-276169-0

Here at OLS, we have experienced scientific staff happy to provide any assistance with your specific questions!

More resources

cellcounting.de is your online resource for your CASY. You'll find manuals, videos and a lot of support–topics. And even more: Tips, Tricks, new applications – and a direct contact for you to make your work an outright satisfying experience.

Watch CASY hands-on videos: bit.ly/cellcounting

Stay updated: register for our free newsletter: ols-bio.de/newsletter

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